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SEED ANNUAL

Grand Rapids
Growers, Inc.

SEED
MERCHANTS

401-433 Ionia Ave., S. W.

GRAND RAPIDS, MICH.

Forcing Varieties

The Most Dependable Seed for Greenhouse Crops

These varieties are used in all parts of the country by the best and largest growers in the business. If you are not familiar with these varieties, give us a trial order and get acquainted with their merits. Below we give you a partial description, with the complete text found in the pages of this catalog. We have appreciated a nice business on our forcing varieties and an order from you will be filled on the same day it is received.



RADISH

GRAND RAPIDS FORCING. New Improved. The best greenhouse variety and the earliest of the Scarlet Globe type, and superior in every way for greenhouse forcing. With the shortest top. Full description will be found on page 23.

Oz., 15c; 1/4 lb., 30c; 1 lb., \$1.00, not postpaid.



LETTUCE

GRAND RAPIDS FORCING. (Washington Strain.) A splendid forcing strain. Color a light green, heads very heavy; leaf crisp, tender and curly; quality of the best. Complete description will be found on page 16.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

HYBRID TOMATOES

"Just a Little More of Everything"

Two important Hybrid Tomatoes bred and grown by Roy H. Burghart and introduced to the trade as a better and more vigorous Tomato that is more resistant to wilt and disease. They are ideal greenhouse varieties, and have been grown in all of the leading Tomato sections of this country for the past several years.

SPARTAN HYBRID is a cross between Michigan State Forcing and Cooper's Special. Globular in shape, medium size, weight 5 to 6 ounces, about three to the pound, growing in clusters of six to eight. A meaty Tomato, small seed cavity. Seed supply sold out until new crop harvest September, 1960. Suggest Michigan-Ohio for present needs.

NORTHERN HYBRID is a cross between Michigan State Forcing and Sutton's Best Of All and is an ideal greenhouse hybrid for NORTHERN growing, especially in Canada and northern United States including Alaska. It is more vigorous growing, particularly in dark fall and winter weather which is prevalent in the North. It is not as large as Spartan Hybrid, 4 to 5 ounces of solid fruit, in clusters of ten to twelve. Color red, globular in shape.

MICHIGAN-OHIO HYBRID. A new F₁ Tomato for greenhouse production. It is a cross of Michigan State Forcing and WR3, and has proved to be far superior to any other cross so far produced. It is wilt-resistant. The seed supply is ample this year for the first time in its history, and the demand has been ever increasing. Full details will be found on page 28.

1/32 oz. (approx. 250 seeds), \$3.00; 1/16 oz. (approx. 500 seeds), \$6.00; 1/8 oz. (approx. 1000 seeds), \$10.00; 1/4 oz., \$15.00; 1/2 oz., \$27.50; 1 oz., \$50.00, postpaid.



Michigan-
Ohio
Hybrid

Important

By Carefully Following These Suggestions, Many Mistakes Will Be Avoided

Order Blanks

Order blanks have been inserted in this catalog for your convenience. Please use them. Fill in your NAME, POST OFFICE, SHIPPING POINT or nearest EXPRESS OFFICE, your COUNTY and STATE, as this is as important in the prompt filling of your order as the order itself. Write plainly and avoid mistakes. Additional order blanks are mailed with every order. If you do not receive them, please notify us, and we will be glad to furnish them.

Terms

We will ask that you please send your remittance with your order. ON ALL ORDERS OF VEGETABLE AND FLOWER SEEDS except PEAS, BEANS and CORN, amounting to \$5.00 or more, we will allow a

10% cash discount. This discount does not apply on bulbs, special offer collections, plants or any other item listed in this catalog, as these are NET CASH as quoted.

This offer is good only in the United States, and while we do not think there will be any serious changes, ALL PRICES QUOTED ARE SUBJECT TO CHANGE

WITHOUT NOTICE, Michigan State Sales Tax will be charged on orders for home gardeners or wherever applicable.

How to Send Money

Remittance should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, BANK DRAFT or CERTIFIED CHECK. It is perfectly safe and your order will be assured of prompt handling. U. S. CURRENCY and U. S. POSTAGE STAMPS for small amounts are acceptable but in this case the letter should be REGISTERED.

CANADIAN SHIPMENTS—SPECIAL NOTICE

Due to increased postal rates and added additional expense in Canadian mailing, we cannot discount our list prices on seeds, prepaying shipping or make C.O.D. mailing. To avoid mistakes and insure prompt handling, we suggest cash with your order including the postage.

Non Warranty

We give no warranty, express or implied, as to the productiveness of any seeds or bulbs we sell and we will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seed.

Small Orders

We value small orders and they receive the same careful attention and prompt mailing. On vegetable seeds the minimum unit is 10c pkts. and in flower seeds the minimum unit is a 15c pkt. On seed orders less than \$1.00 please add postage for first class mail delivery at the rate of 3c per ounce of mailing weight. If items weigh 1 pound or more, refer to the parcel post mailing chart found on this page.

Large Quantities

Parties buying large quantities of any one variety of seed will be quoted special prices on application.

Price of Seeds By Weight

We will supply HALF POUNDS and over at the pound rate; less than half pound lots are charged at the quarter pound and ounce rate.

Safe Delivery

All seeds and supplies sent out by us are fully insured and we guarantee their safe arrival. If they are damaged, notify us immediately.

Postpaid Prices (Important)

Postage is prepaid on certain items of vegetable and flower seeds, but we would call our customer's attention to the exceptions as they may be noted on those items that the postage is to be paid by the purchaser, and in all cases, please add to the order the amount of postage, with your cash remittance. Your postal delivery service will advise you as to your "zone" and you can then refer to the table of rates below for your respective charges.

In figuring the amount of postage needed, be sure to figure for the packing required, as 1 lb. ordered cannot be mailed for 1 pound but must take the 2-lb. rate, and on larger amounts 2 or 3 pounds must be figured, on account of the total packed weight on which the postage would apply, but any money you send us in addition, that is not needed, will be promptly refunded when your order is filled.

Air Mail

On RUSH ORDERS received by air mail, wire or telephone for one ounce or more of seed, we will send by air mail if so requested at a normal charge of 6c per ounce of seed ordered, not exceeding 8 ounces, as the postal rate is 6c per each ounce. One ounce of seed would weigh more than one ounce when it is packed ready to mail. Where the mailing weight is less than one ounce we will pay the postage. On larger quantities the schedule is:

		Per Pound	Additional
		Mailing Weight	Pounds
Zones 1			
and 2	.....	60c	48c
3	.....	60c	48c
4	.....	65c	50c
5	.....	70c	56c
6	.....	75c	64c
7	.....	75c	72c
8	.....	80c	80c

This will give you overnight service to almost any point in the continental U. S.

Parcel Post Mailing Instructions

No. 1.—SEEDS. Maximum weight on SEEDS is 70 lbs. to any post office in the United States. Orders over 70 lbs. can be mailed as two separate units. To determine the correct postage cost, allow one pound extra weight for packing and package to the net weight of seeds ordered. For instance to mail 10 lbs. of merchandise to the first or second zone, the mailing weight will be in the 11 lb. bracket to allow for packing, therefore the estimated postage cost for this mailing will be 33c for the first two pounds, plus 5c for the next 9 pounds which will total 78c for the complete mailing of 10 lbs.

No. 2.—MISCELLANEOUS SUPPLIES. The length and girth of any package is limited to 72 inches maximum, and the maximum weight is 40 lbs. in the second zone, and 20 lbs. maximum in the third to eighth zones except to second class post offices or on the rural route of any post office, where the maximum would be 70 lbs. It might be cheaper to send bulky and heavy packages by express beyond the third zone.

Approximate Domestic Parcel Post

Rates on seeds and miscellaneous supplies within the United States.

Under 16 ozs. the rate is 1½c per ounce in any zone.

Local—within Grand Rapids or its rural routes

	First Two Pounds or Fraction	Each Additional Pound or Fraction
.....	24c	2c
1st and 2nd Zones—within 150 miles	33c	5c
3rd Zone—within 150 to 300 miles	35c	6c
4th Zone—within 300 to 600 miles	39c	8c
5th Zone—within 600 to 1000 miles	45c	10c
6th Zone—within 1000 to 1400 miles	51c	13c
7th Zone—within 1400 to 1800 miles	58c	16c
8th Zone—all over 1800 miles	64c	19c

A fraction of a cent in the total amount of postage on any parcel is counted as a full cent.

CANADA: All parts 45c per lb.; 22c for each additional pound. If in doubt about the rate of postage, consult your local postmaster.

Grand Rapids Growers, Inc.

Seed Merchants

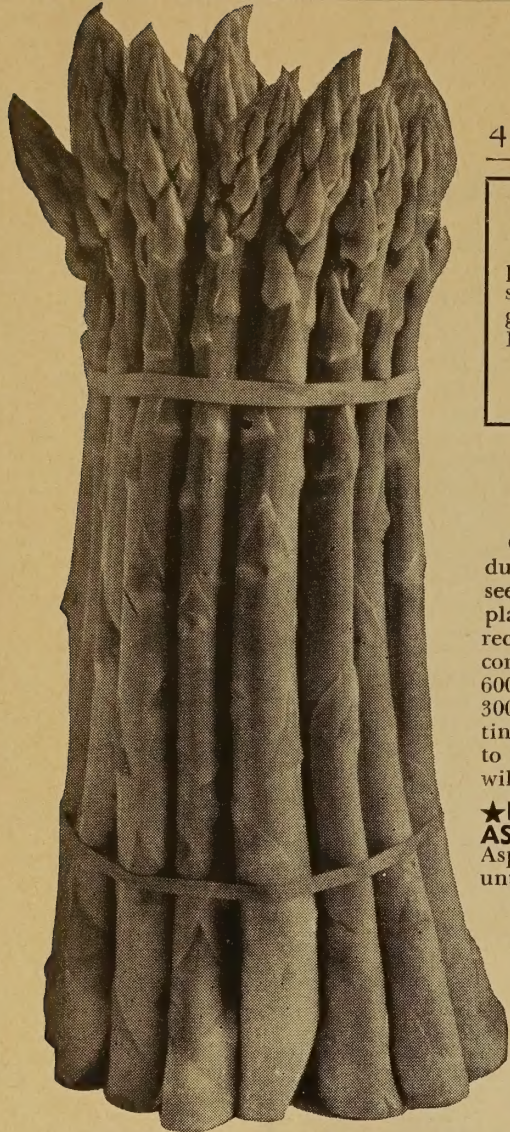
Cor. Wealthy and Ionia Ave.. S.W.
Phone: 97216

Grand Rapids, Mich.

SPECIAL ANNOUNCEMENT

SEED RESEARCH SPECIALISTS INC. OF MODESTO, CALIFORNIA, have appointed the Grand Rapids Growers, Inc., as distributors for their complete line of seeds in the State of Michigan. We are prepared to service SRS dealers and will fill grower orders on request for SRS seeds if unable to purchase through a local dealer. If further information is desired, please contact

**GRAND RAPIDS GROWERS, INC., 401 Ionia Ave. S. W.
Grand Rapids 2, Michigan—Phone GL 9-7216**



Mary Washington Asparagus

Asparagus

CULTURAL DIRECTIONS. One-half ounce of seed will sow 50 feet of drill and produce about 500 plants. Drill the seed thinly in rows about 24 inches apart, covering seed 1 inch. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following spring. Permanent beds, before planting, should receive an application of 1000-1500 pounds complete commercial fertilizer. On established beds apply 400-600 pounds complete fertilizer each spring plus 200-300 pounds ammonium nitrate at the end of the cutting season. Do not cut until third year, limit cutting to middle of June. Remember, the bed well planted will last for at least 20 years. Treat it well.

★**MARY WASHINGTON RUST-RESISTANT ASPARAGUS.** The largest and most tender green Asparagus. This is a decided improvement due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Suitable for quick freezing.

Prices: Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

Asparagus Roots

We have the Mary Washington Rust-Resistant Asparagus roots, every spring, and as we handle only the very best 2-year roots, that are locally grown, we will ask that you write us for prices in whatever quantity you may want.

Wax Podded Varieties

★**PENCIL POD BLACK WAX.** Pods are round, very long, tender and entirely stringless. Extremely productive. Best market gardeners sort. Suitable for quick freezing.

**Not postpaid: 1 lb., 60c; 10 lbs., \$4.75;
25 lbs., \$9.75; 50 lbs., \$18.00.**



Pencil Pod Black Wax

Beans

Due to the increase in postage rates, BEANS are not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

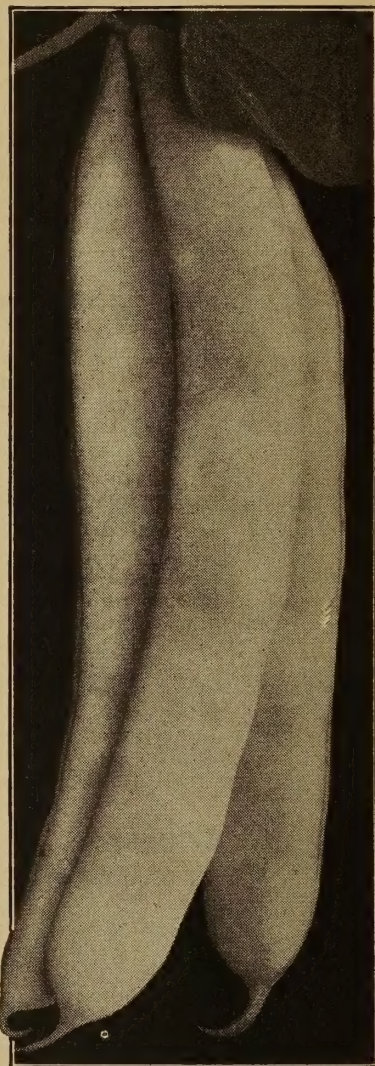
CULTURAL DIRECTIONS: Garden Beans may be planted after danger of frost is past. Plant in rows, about 1 lb. of seed to 100 ft. of drill and 2 or 3 inches apart. Rows should be at least 2 ft. apart of the dwarf varieties. Cover 1 to 2 inches deep. Lima Beans should not be planted until June 1st when the soil is thoroughly warm. Pole Beans need props or other medium for climbing.

CHEROKEE WAX (Valentine Wax). 50 days. Developed from an original selection made by Dr. W. C. Barnes, of South Carolina. The plant is large and erect. Pods golden wax, measuring 6½ inches long, oval, nearly straight, stringless at all stages, tender and of good quality. The most prolific wax podded variety, equal in yield to the best green podded types. Seeds 80 per ounce.

**Not postpaid: 1 lb., 60c; 10 lbs., \$4.75;
25 lbs., \$9.75; 50 lbs., \$18.00.**

GOLDEN WAX (Top Notch). 52 days. An excellent early home garden variety. Pods clear golden yellow, broad, flat-oval, fleshy, brittle and stringless. Suitable for quick freezing.

**Not postpaid: 1 lb., 60c; 10 lbs., \$4.75;
25 lbs., \$9.75; 50 lbs., \$18.00.**



Golden Wax

Prices on larger quantities of the Bean varieties listed above will be quoted on request.

Green Podded Varieties

TENDERCROP. 48 days. Developed by U. S. D. A. and is a cross between Tenderpod and Top Crop. High setting, round pod, medium green color. Suitable for quick freezing. Seed crop failure.

★**TOP CROP.** 48 days. A new important addition to the Tendergreen class. Early and productive, stringless, resistant to common Bean Mosaic, medium green, pods 6 inches long by 3/8 in. wide, round. Excellent for shipping, market as well as canning and freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

LONG VAL. 50 days. An improved Black Valentine, pods are longer and straighter, mosaic resistant. Seed crop failure.

BLACK VALENTINE. 52 days. Mosaic resistant. A stringless shipping and market variety. Pods semi-round, slightly curved, dark green, 6 to 6½ inches long. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

STRINGLESS GREEN POD (Landreth). 53 days. An improvement of Burpee's Stringless Green Pod. Vine is more erect, with darker foliage and a longer, slimmer pod. Pods 6 to 8 inches long, slightly curved, meaty, and absolutely stringless. Undoubtedly the best round-podded Bean on the market today. Very prolific and an ideal variety for home garden, market gardeners and canners. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

EXTENDER. 54 days. A new mosaic resistant Bean of Contender type except longer and straighter with darker green pods. Pods round and 8 inches long. Suitable for quick freezing. Seed crop failure.

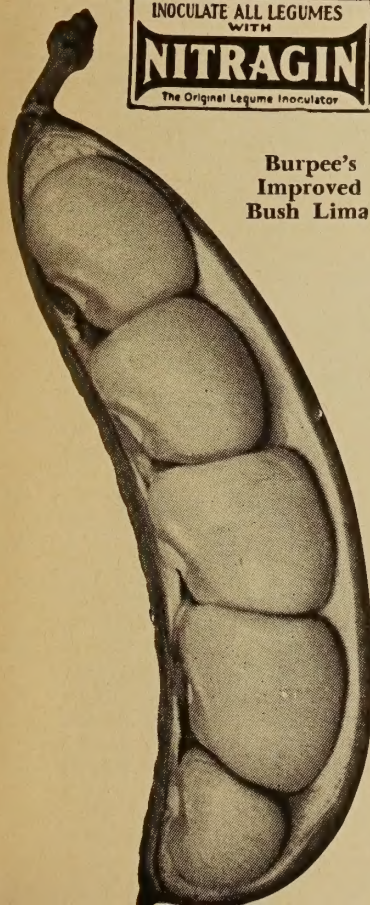
★**CONTENDER.** 54 days. A green-podded variety. Developed by the U. S. D. A. The plant is vigorous, resistant to common Bean mosaic and partly so to powdery mildew. Pods round, 7¼ inches long and a little larger than Stringless Black Valentine. Adapted for home garden and shipping.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

Postage will be extra. Refer to rates on page 3.



Burpee's Improved Bush Lima



Stringless Green Pod (Landreth)

DUTCH CASE KNIFE. (Snijboonen). 65 days. McCaslen pole Bean. Green snap pods, 7 to 8 inches, straight, flat, brittle, of good quality; best as a shell Bean. Beans very flat, ivory-white.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

KENTUCKY WONDER or OLD HOMESTEAD. 65 days. The most popular green-podded, climbing Bean; early and productive. Pods 8 to 9 inches long, very slender. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

★**TENDERGREEN.** 54 days. A new introduction, and now one of the most popular green Beans. Hardy; dependable cropper, medium large, dark green and stringless. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

TENDERBEST. 54 days. A worthy successor to Tendergreen. High resistance to common Bean mosaic and N. Y. 15 mosaic. Resistant to root rot allows good crops in dry seasons. Upright, dark green plants hold pods high off ground. Pods are unusually straight and smooth.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75; 50 lbs., \$18.00.

Lima Beans Pole Variety

KING OF THE GARDEN LIMA. 88 days. An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide and uniformly four seeded.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75.

Dwarf or Bush Varieties

BURPEE'S IMPROVED BUSH LIMA. 75 days. Both Beans and pods are larger than the old type. The pods measure 5 to 6 inches long by 1¼ inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75.

★**FORDHOOK BUSH LIMA No. 242.** U. S. D. A. 75 days. A most excellent variety and exceedingly popular with market gardeners. Pods are about 5 inches long, containing 4 to 5 large, oval-shaped, very thick, white Beans. Suitable for quick freezing.

Not postpaid: 1 lb., 60c; 10 lbs., \$4.75; 25 lbs., \$9.75.

★**HENDERSON BUSH LIMA.** Thorogreen Green Cotyledon. (Baby Lima.) 65 days. A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat, white Beans. Suitable for quick freezing.

Not postpaid: 1 lb., 50c; 10 lbs., \$4.50; 25 lbs., \$8.00.

Prices on larger quantities of the Bean varieties listed above will be quoted on request.

Beets

CULTURAL DIRECTIONS. One ounce to 50 feet of drill; 6 to 8 pounds per acre. Beets prefer a well-prepared friable soil. Plant from ½ inch to ¾ inch deep, according to the texture of soil. For an early crop sow in drills 1 foot apart as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to 3 inches apart in the row. Beets can be sown as late as July for main crop. A complete commercial fertilizer high in phosphorus and potash applied as a band alongside the row is recommended. Care should be used that the seed does not come in immediate contact with the fertilizer.

EARLY WONDER or EARLY BLOOD TURNIP IMPROVED. 55 days. An early variety. It is Turnip-shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching.

Oz., 20c; ¼ lb., 50c; lb., \$1.40, postpaid.

★**DETROIT DARK RED.** (Morse's Strain.) 55 days. The best for market gardeners or home use. Roots smooth, medium size, globe-shaped; skin dark red; flesh solid vermilion-red. Tops small, upright, dark green, shaded red.

Oz., 20c; ¼ lb., 50c; lb., \$1.40, postpaid.

GREEN TOP BUNCHING. 60 days. Early, extremely attractive bunching Beet. Tops medium sized and erect. Foliage clean, grayish green that does not turn red or brown in the fall. Roots round, smooth, glossy, flesh bright blood-red. Mostly grown for Beet greens.

Oz., 20c; ¼ lb., 50c; lb., \$1.40, postpaid.



Swiss
Chard

Swiss Chard

CULTURAL DIRECTIONS. One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer, and if given a little protection during the winter, will produce early greens in the spring.

LUCULLUS. 55 days. Leaves large and curly. Plant grows about 2 feet high, midribs are very broad and are a good substitute for Asparagus during the summer months.

Oz., 15c; ¼ lb., 50c;
lb., \$1.50, postpaid.

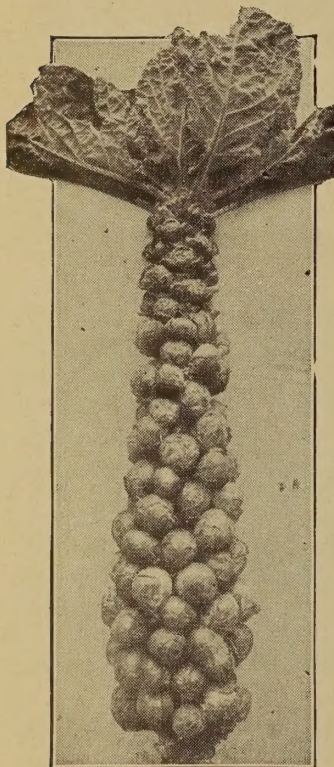
NEW RHUBARB. A Chard of unique crimson color. Stalks sweet and succulent. Bright red in color; leaves green to bronze, heavily veined with red. Plants are vigorous and will yield a tremendous crop throughout the summer and fall, until frost.

Oz., 30c; ¼ lb., \$1.00;
lb., \$3.00, postpaid.

Brussels Sprouts

The culture is the same as for Cabbage which it resembles, the edible part being the small heads, an inch or two in diameter, that form at each leaf joint all the way up the stalk. The leaves should be broken off in the fall to give more room for the little heads to grow. Control aphids with nicotine sulphate or Evergreen Garden Spray. Delicious and more tender than any Cabbage. 90 days. Suitable for quick freezing. Half dwarf.

Catskill Strain. Oz., \$1.00;
¼ lb., \$3.50; 1 lb., \$12.00,
postpaid.



Brussels Sprouts



Detroit Dark Red (Morse's Strain)

Mangel or Stock Beets

CULTURAL DIRECTIONS. One ounce to fifty feet of drill, five pounds per acre. Sow early in the spring, in rows about 2 feet apart; cover seed 1½ inches deep, pressing ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

MAMMOTH LONG RED. 120-150 days. A favorite with the dairyman and farmer. Large, well-formed; dark red color, very nutritious; a big cropper.

Oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

GOLDEN TANKARD. (Yellow Eckendorf). 120-150 days. Very productive and sweet; tops and neck very small; flesh yellow; especially relished by cows and sheep.

Oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

Sugar Beets

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for winter feed. They are also excellent for poultry.

GIANT FEEDING SUGAR. 120-150 days. A most valuable, large yielding variety for feeding; half sugar, oval-shaped, skin rose colored, flesh white, very nutritious and easily harvested.

Oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

Broccoli

A frequent application of nitrate of soda or other nitrogen fertilizer can be of great value to promote the life of this crop.

Worms on Broccoli can be controlled with 1% rotenone dusts; aphids or plant lice with nicotine sulphate or Evergreen Garden Spray.

ITALIAN GREEN SPROUTING. 75 days. This variety produces a large head, like Cauliflower, consisting of a compact cluster of bluish green flowers. When the central head is removed, the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served as Cauliflower. Suitable for quick freezing.

Oz., 35c; ¼ lb., \$1.25; 1 lb., \$3.50, postpaid.

GREEN MOUNTAIN. 60 days. Bred to meet the needs of market growers and freezers, this new extra early sprouting Broccoli is also excellent for home gardens. Produces large, compact, dark green center heads. Buds are tight and attractive. Long flower stems separate easily for freezing and heads mature uniformly.

Oz., 60c; ¼ lb., \$1.80; lb., \$5.50, postpaid.

A New Broccoli Variety

SPARTAN EARLY. This new variety of Broccoli has just been released from the Michigan Agricultural Experiment Station at East Lansing. Spartan Early was selected and improved from Green Mountain. The new variety is 10 to 14 days earlier than Green Mountain and the plants are uniform in size and shape, short and compact. Foliage is light bluish green. The central heart matures uniformly in size and shape, averaging 6 to 8 inches in diameter. We have a small quantity of seed to offer for trial and we offer this at "no charge" in ¼ oz. packets.

Cabbage

CULTURAL DIRECTIONS. Five to eight ounces of seed will produce enough plants for an acre. Two to three pounds will be needed for direct seeding. For early Cabbage sow in hotbeds in January or February. Transplant as early as possible to the open ground spacing about two feet apart each way. For late Cabbage, sow in open ground in May and transplant about July first in rows 2½ feet apart. Thin plants in the rows to 15-18 inches apart.

In fertilizing we recommend 800-1000 pounds per acre of a complete commercial fertilizer broadcast or 500-800 pounds side-dressed. In the home garden broadcast 30-40 pounds per 1000 square feet of complete commercial fertilizer.

Most insects on Cabbage and related crops can be controlled by dusting with rotenone; aphids with nicotine sulphate or Evergreen Garden Spray. Aphids are most easily killed when the temperature is at least 70° F.

Early Varieties

★**GOLDEN ACRE.** 64 days. Heads round, very hard. Matures two to three weeks earlier than Copenhagen Market, but is otherwise quite similar. Owing to earliness and remarkable uniformity, will prove the most profitable early Cabbage for market gardeners.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

EARLY JERSEY WAKEFIELD. 62 days. Market gardeners in general consider this the best early variety. Conical heads are uniform in shape, very solid. Our stock is dwarf, compact and extremely early.

Oz., 45c; ¼ lb., \$1.35, 1 lb., \$4.00, postpaid.



Golden Acre Cabbage

IMPROVED COPENHAGEN MARKET. 65 days. Nearly as early as Jersey Wakefield. Stems short, heads large, round and solid, few outer leaves.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

GREEN ACRE. 66 days. A comparatively new strain with general characteristics of Golden Acre, but holds its green color longer, an added value to market gardeners and shippers.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

Late Varieties

FERRY'S HOLLANDER. 100 days. Decidedly the best variety of late Cabbage. Heads become firm while still rather small. They reach good marketable size in 90 to 100 days, but continue to enlarge, maturing in about 120 days. Plants medium small, allowing closer planting, short stem, erect and compact. Extremely hardy, splendid quality and keeps perfectly in storage until late spring. Decidedly the best variety for muck growing.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.



Danish Ballhead

MAMMOTH ROCK RED. 90 days. Heads solid, of good size and quality.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**PENN STATE BALLHEAD.** 100 days. A heavy yielding strain of the short stem Danish Ballhead type. Originated by Pennsylvania State College. Yields as high as 26 tons per acre have been recorded.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**BONANZA.** 75 days. Almost round, very firm and uniform. The shortest core of any Cabbage we know, making it extremely slow to produce seeders. Can be harvested early as it makes a firm head, but can also be held until later. Heads slow to split. Ideal for shipping, as well as market.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

★**DANISH BALLHEAD.** 95 days. Short-stemmed, heads round, very solid and heavy. Splendid keepers, hardy, and the best winter sort. Not recommended for muck growing.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

PREMIUM FLAT DUTCH. 105 days. Highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender.

Oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

AMERICAN SAVOY. (Chieftain). 85 days. Large, flattish heads, very curly and hard. One of the best Savoyes.

Oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

RED STONEHEAD. 80 days. An exceptionally good variety forming round heads, smooth, hard, of a glowing red color. A good keeper.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

Cabbage

Yellows-Disease Resistant Varieties

RACINE MARKET. 70 days. Plant 10-12 inches tall, compact, short-stemmed, upright, distinct blue-green leaves with erect growth. Head 6½ inches in diameter, round, solid and of good quality. A yellows-resistant Copenhagen Market type. Extremely uniform and is popular with home and market gardeners as well as shippers.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

RESISTANT GOLDEN ACRE. 63 days. Yellows resistant.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**WISCONSIN HOLLANDER No. 8.** (Yellows-resistant). 90-100 days. A heavy yielding late storage type, highly resistant to yellows. Round head, and yields greater tonnage than ordinary strains.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

★**MARION MARKET.** 75 days. A yellows-resistant strain of Copenhagen Market. Round head and crisp tenderness of the parent Cabbage. Principally adapted on yellows infested soil, where non-resistant strains fail completely.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

Cauliflower

CULTURAL DIRECTIONS. One ounce of seed will produce 4000 plants. Five ounces of seed to an acre. Directions about the same as Cabbage, except planting in rows about 3 feet apart and 18 inches apart in the row. When plants begin to head, tie leaves up around the head to protect from the sun.

EARLY SELECT SNOWBALL. 55 days. A very fine strain of early Cauliflower. Plants of medium height with rather waved or crumpled leaves which bend outward at the tips. Inner leaves cover the head well. Foliage is medium green. Heads of good depth, solid, ivory-white and of fine quality. Early and very even at time of maturity, requiring prompt handling. Adapted for summer and early fall harvest.

Oz., \$2.00; ¼ lb., \$6.00; 1 lb., \$18.00, postpaid.

★**GROWERS SPECIAL IMPROVED.** 60 days. Well adapted for use under a wide range of conditions and generally considered the most satisfactory main crop strain for fall harvest. Plants are large and erect with ample foliage for head coverage. Leaves are long, rather straight, plain edged and medium bright green color. The heads are large, smooth, very deep, very solid and pure white. Unexcelled for quality. About a week slower reaching maturity and the harvest is not so concentrated.

Oz., \$2.00; ¼ lb., \$6.00; 1 lb., \$18.00, postpaid.

SNOWBALL "Y". A new strain developed by Ferry-Morse for vigorous growth even under adverse conditions. Plants are large and erect with numerous, medium-green leaves. Solid, pure white heads have tight, smooth curds. This later maturing Cauliflower is unexcelled for uniformity, quality and marketability.

Oz., \$2.00; ¼ lb., \$6.00; 1 lb., \$18.00, postpaid.



Growers Special Improved Cauliflower



Greenback Cabbage

GREENBACK. (Yellows Resistant.) 74 days. A new Cabbage in the Round Dutch class about as early as Marion Market, but darker green and more compact. Vigorous and short-stemmed. Slow to produce seed stalks. Especially recommended for market and shipping in areas infected by yellows.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.50, postpaid.

BADGER MARKET. 67 days. Plant 9-10 inches tall, dark blue-green, cup-shaped leaves. Heads 5-6 inches in diameter, weigh 3 lbs.; round with a solid interior. Developed by the Wisconsin College of Agriculture. A good small-headed early variety.

Oz., 65c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

Celery Cabbage

CULTURAL DIRECTIONS. One ounce will produce 2000 plants. Do not sow seed till the last of May, earlier sowing generally going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned.

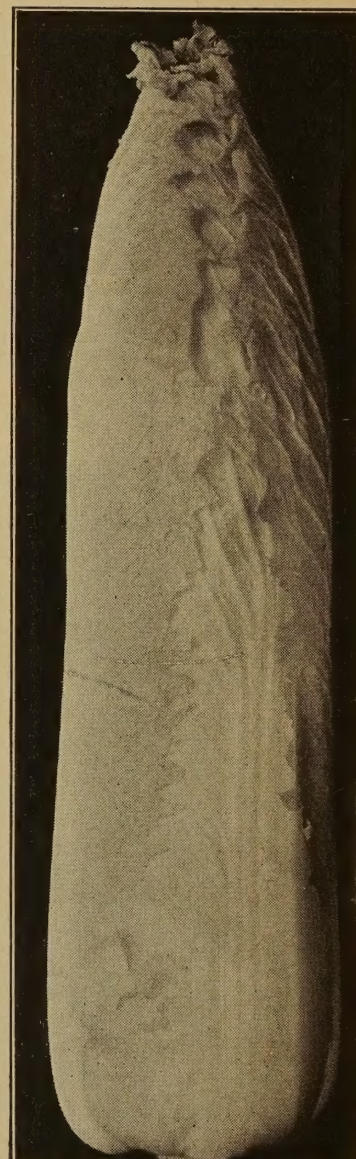
CHIHILI. 70 days. Imported from Holland. This is the true strain. It has a delicate flavor, much milder than Cabbage. The heads are long, about 16 inches, rather slim, coming to a point at the top. Color is very dark bluish green, with the inner leaves and stalks blanched to a beautiful snow-white. This past season it proved its place and is highly recommended as a true strain.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

MICHILHI. 70 days. A new strain of Celery Cabbage. In habit of plant it resembles Chihili, but the growth is more vigorous. The leaves are dark green and do not have the yellowish cast of Chihili. The leaf margins are waved and the individual plants are very uniform. It is surer heading, and in trial plantings made on a commercial scale it has produced 99% marketable heads.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

Our cultural directions are the special recommendation of our growers who through actual experience know what is necessary for the successful growing of a crop, and give it to you for your guidance.



Michihli Celery Cabbage

Carrots

CULTURAL DIRECTIONS. Carrots require about the same simple care as Beets; they have no serious insect enemies, and they are rarely attacked by disease. It is best to plant them in soil that is friable and richly fertilized. Plant the seed one-half inch deep in loose, well-prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as the plants are well established and thin to 2 or 4 inches in row, according to size of the variety. Plantings may be made from early spring until mid-June. For winter storage the later date is advisable.

★**NANTES CORELESS, STRONG TOP.** 68 days. A very superior Carrot. Coreless, brittle, fine grained, of fine, mild, sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical, and very stump-rooted. Suitable for quick freezing.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25; 10 lbs., \$21.50, postpaid.

SUPREME HALF LONG. (Danvers No. 126). 75 days. Roots 1¾ to 2¼ inches. Crown 7 to 8 inches long. Skin smooth, good orange color. Interior dark orange-red, core the same color.

Oz., 30c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.

IMPERATOR. (Long type). 77 days. Selected strain, specially developed for bunching. Top medium height, abundant and strong for good bunching. Roots long, slender, smooth and uniformly tapered. Flesh rich orange color.

Oz., 30c; ¼ lb., 95c; 1 lb., \$2.75, postpaid

GOLD PAK. 77 days. Has long, very uniform roots, with short, dark green tops. Roots remain in good condition in fields for a long time without becoming coarse and overgrown. Tops are strongly attached. 8½ to 10 inches long at maturity. Color: exterior, deep orange; interior, bright reddish orange. Cores are small and indistinct. Excellent for bunching and cello-pack.

Oz., 30c ¼ lb., \$1.00; 1 lb., \$3.25;
10 lbs., \$30.00, postpaid.

GOLD SPIKE. The finest shipping variety of the Long Type Imperator. The top is 4 inches shorter with more erect leaves, having thick petioles firmly attached. The tops are compact, coarsely cut and dark green. Roots are ideal for shipping, 8 to 10 inches long, ¾ to 1¾ inches in diameter. The skin is smoother than Imperator with a deeper and more attractive color. We believe this variety will replace the Imperator Long Type as it is far superior.

Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.25;
10 lbs., \$30.00, postpaid.

★**CHANTENAY, RED-CORED.** 70 days. This is a distinct improvement over the well known standard Chantenay, especially in color, texture and quality of flesh. Roots 5½ to 6 inches long, 2¼ inches thick at the shoulder; tapered stump root. Flesh and core reddish orange, fine grained and tender. A favorite with canners, market gardeners and shippers. Suitable for quick freezing.

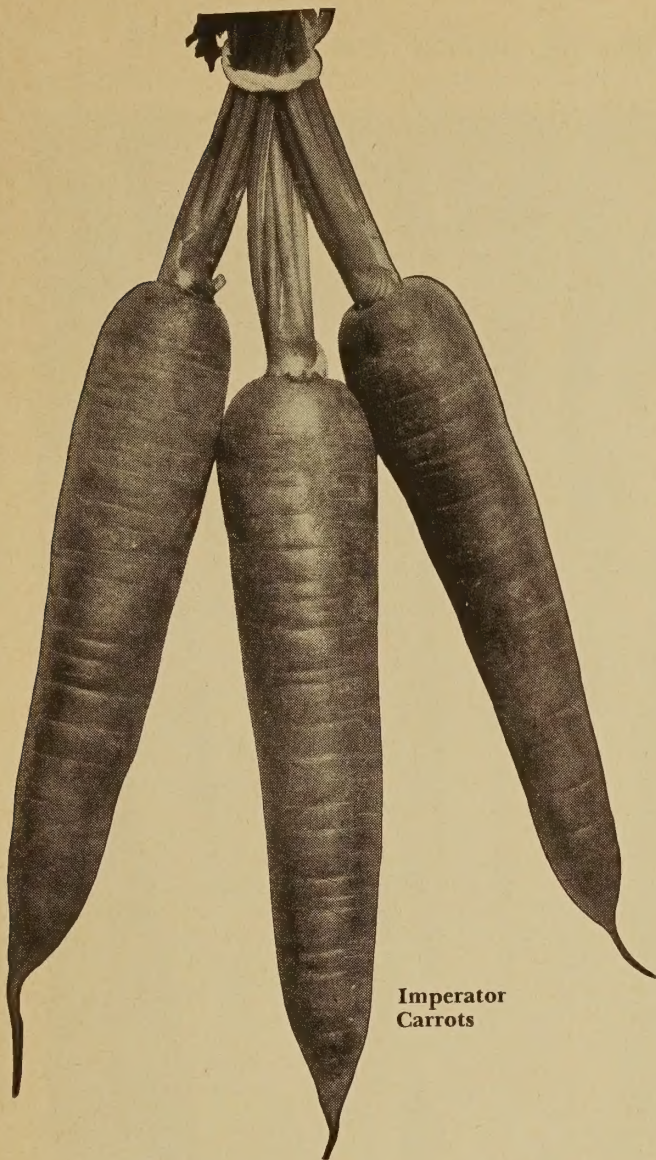
Oz., 20c; ¼ lb., 55c; 1 lb., \$1.75; 10 lbs., \$16.00, postpaid.

CHANTENAY, LONG TYPE. 70 days. A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer but fully as large; stump rooted at maturity. Texture and color equal to Red-Cored Chantenay. Suitable for bunching or bushel use. Suitable for quick freezing.

Oz., 20c; ¼ lb., 55c; 1 lb., \$1.75; 10 lbs., \$16.00, postpaid.

★**MORSE'S BUNCHING.** 77 days. Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are 1¼ to 1½ by 8 inches in size, almost cylindrical with rounded shoulders, and are well stumped.

Oz., 20c; ¼ lb., 55c; 1 lb., \$1.75; 10 lbs., \$16.00, postpaid.



Imperator Carrots



Supreme Half Long Carrots

Celery

CULTURAL DIRECTIONS. One ounce will produce from 5,000 to 10,000 plants, two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer, but as muck soils are usually well supplied with an abundance of nitrogenous matter, a fertilizer high in phosphate and potash gives the best results.

Sow seed in rows in the greenhouse or cold frame. When 3 to 6 inches high transplant to the field, spacing yellow varieties 4 inches apart in the row, Pascal varieties 6 inches. Avoid prolonged chilling of young plants to reduce tendency to bolt seedstalks. Nitrogen side-dressing is beneficial on both yellow and green varieties, particularly on green.

Standard Yellow Varieties

NEW GOLDEN SELF BLANCHING. Commonly known as "Tall Strain." American grown. A hardy yellow Celery for early, medium or late crops.

Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

GOLDEN PLUME 4462. (New strain.) The best strain in the Golden Plumes. Compact, full hearted, 24 to 26 inches tall by 7½ to 8 inches to the joint. Early maturing, easily blanched, excellent quality.

Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

TALL NON-BOLTING GOLDEN PLUME. The ability of this strain to withstand low temperatures without bolting is outstanding. Height 26-27 inches; 8½ to 9 inches to joint.

Oz., \$1.35; ¼ lb., \$4.25; 1 lb., \$15.00, postpaid.

Choice Market Garden Varieties Green Varieties

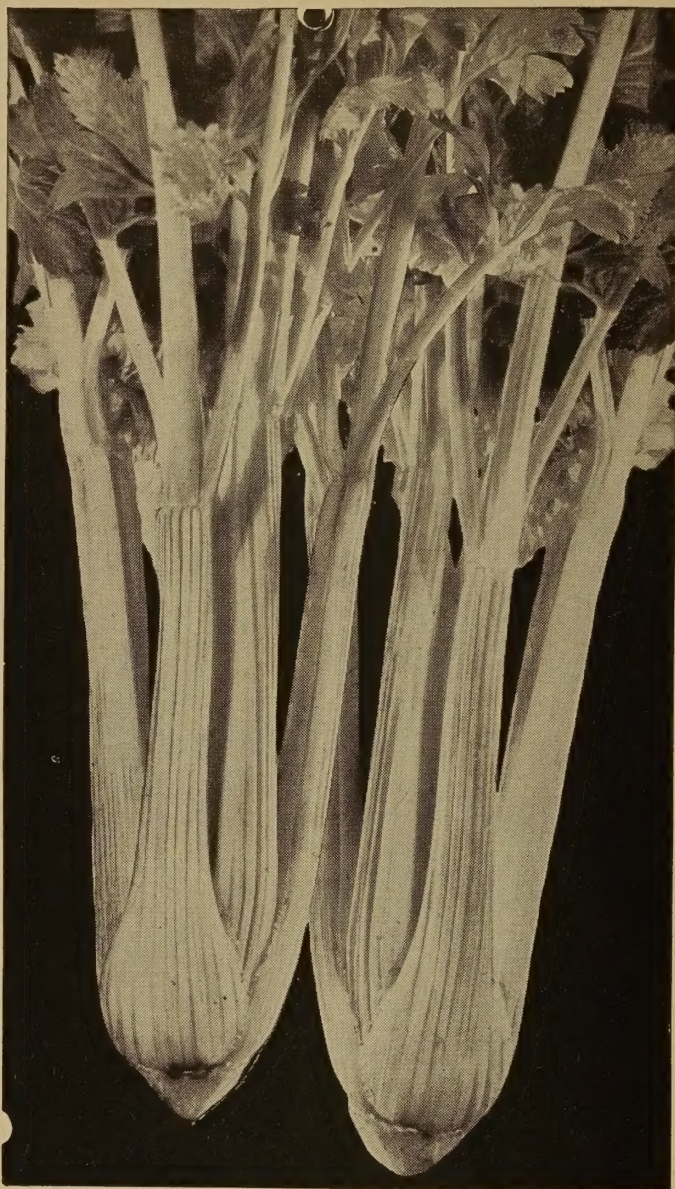
TWO BOLT-RESISTANT GREENS

SPARTAN 162. New slow bolting green, Pascal type, developed at Michigan State University. Plants are compact, erect with over-all height of 24 to 26 inches. 9 to 10 inch petioles which are rounded, thick, fleshy, lightly ribbed with slight flaring at base. Stalks tender, crisp, mild and of good quality. Resistant to magnesium yellowing.

Oz., \$1.75; ¼ lb., \$6.75; 1 lb., \$24.00, postpaid.

UTAH No. 12. Non-bolting. Erect plants are slower to bolt than other green types. Plants are vigorous, compact and tightly shingled. Ribs are 10 to 11 inches long. Widely adapted.

Oz., \$1.50; ¼ lb., \$3.00; 1 lb., \$12.00, postpaid.



Michigan Golden Celery

Standard Yellow Varieties

NEW MICHIGAN GOLDEN

This is a new selection and new seed crop of Michigan Golden developed by Dr. Ray Nelson, plant pathologist at Michigan State University for resistance to fusarium yellows, root rot and crown rot. Stalk is very full hearted, 24 inches tall, 8 to 10 inches to the first joint, tender quality. This seed of Michigan Golden is packaged and sealed at the University and is sold only in these sealed packages.

Oz., \$1.75; 2 ozs., \$3.25; ¼ lb., \$6.00;
1 lb., \$22.00, postpaid.



Cornell 19

CORNELL No. 19. 100 days. We offer the true strain of this excellent variety. 10½ to 11 inches to joint with an over-all length of 24 to 25 inches. Hearts long and comparatively full. Stems thick, round and of smooth texture. Combines the good qualities of the Pascal type and is highly resistant to fusarium yellows. We have a limited stock of this variety.

Oz., \$1.50; ¼ lb., \$4.50; 1 lb., \$16.00, postpaid

Pascal and Utah Strains

IMPROVED CALIFORNIA PASCAL (Waltham Strain). A dark green summer Pascal, plant 24 inches high, 10 inches to the first joint, thick rounded stalks, very smooth, not ribbed and free from strings. Because of its hardy growing characteristics it is widely used for early, medium and late summer crops of Celery.

Oz., \$1.50; 1/4 lb., \$4.50; 1 lb., \$16.00, postpaid.

SUMMER PASCAL 259-19. 120 days. This new vigorous Summer Pascal type is finding favor with market growers and shippers. Plants slightly taller than regular Summer Pascal with darker colored leaves. Produces uniformly large sizes with good rib count, compact growth with thick, rounded, edible stalks 9-10 inches in length. Has good green color and the stalks are smooth and attractive. Excellent quality.

Oz., \$3.00; 1/4 lb., \$10.00, postpaid.

UTAH 16-11. A recent development, replacing Utah 16 and extensively used for fall and winter harvest. Plants are tall, with good heart development. Foliage dark green. Stalks rounded, thick and of good length. Quality holds well after reaching cutting stage. Has shown considerable tolerance to frost when mature.

Oz., \$1.50; 1/4 lb., \$5.50; lb., \$20.00, postpaid.

UTAH No. 15. A strain of Utah (California Pascal) of midseason maturity. Plants are large, height 26 to 28 inches. Leaves are dark green, deeply cut, moderately broad. Plants are erect, compact, full hearted. Edible stems are usually 8 to 10 inches long, are numerous, of medium width, thick, rounded and quite smooth, crisp and of fine quality.

Oz., \$1.00; 1/4 lb., \$3.50; 1 lb., \$12.00, postpaid.

TALL UTAH, No. 52-10 B. Plants are tall, 26 to 28 inches, leaves moderately large, medium dark green. Plants are erect and compact. Stems are 8 to 10 1/2 inches long, noticeably of uniform length, rounded, thick, waxy in appearance.

Oz., \$1.50; 1/4 lb., \$4.50; lb., \$16.00, postpaid.

UTAH 52-70. About 135 days. A slightly larger Utah than Tall Utah 10 B and darker leaved. Over-all height 28 to 29 inches. Ribs 9 1/2 to 11 inches, rounded, thick, smooth and medium dark green. Makes large size, high hearts and is very compact and tightly shingled.

Oz., \$1.75; 1/4 lb., \$6.00; 1 lb., \$22.00, postpaid.

UTAH 52-70 H. A tall Utah selection with a longer rib and higher rib count than Utah 52-70. Plants slightly taller and ribs 1/2 to 1 inch longer than 52-70. Useful where vigor and size are required to meet market demands.

Oz., \$2.50; 1/4 lb., \$7.50; 1 lb., \$28.00, postpaid.

COMPAK 2. This special strain selected by Ferry-Morse is similar to Utah 52-70 but has better holding ability and slightly deeper color. Plants are 19 inches to 22 inches tall with good girth. Compact, cylindrical heads, produce deeply cupped, very smooth stems, 8 1/2 inches to 10 1/2 inches long to joint. Shows resistance to leaf yellowing and to brown check caused by magnesium deficiency.

Oz., \$2.80; 1/4 lb., \$9.25; 1/2 lb., \$17.50, postpaid.



Utah 52-70

UTAH (Growers Select Strain). A New strain of one of the best of the Utah families are the parents of this Celery. The growing stock has been carefully selected by a Celery grower specialist and then reproduced. This strain is especially adapted to the Midwest States. The plant is large, compact and uniform. Stems are smooth, well rounded, 8 to 10 inches to the first joint. A good summer crop Celery and a hardy grower. Resistant to leaf discoloration and to magnesium deficiency.

Oz., \$1.75; 1/4 lb., \$6.50; 1 lb., \$24.00, postpaid.

Utah No. 15



Sweet Corn

Due to the increase in postage rates, SWEET CORN is not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

CULTURAL DIRECTIONS. One pound for 200 hills or 400-600 feet of drilled row, about 10-12 pounds per acre. Early Corn is planted in rows 2½ to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for table 8 or 9 weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills 3 to 4 feet apart. It will be ready for use in from 10 to 12 weeks from date of planting. Side-dressing with 100 pounds ammonium nitrate or other nitrogen fertilizer as Corn is tasseling is recommended. Plant 3 or 4 rows of Corn in a block to get good pollination and the best filled ears. Seed saved from Hybrid Corn is of no value since it will not come true to type the second year. Use only fresh one-year-old Corn seed.

Corn borer can be controlled by dusting with 3 or 5% DDT starting when Corn is just under knee high and making 4 applications at weekly intervals.



Golden Sunshine

Open - Pollinated

★**GOLDEN "SUNSHINE."** 74 days. A valuable yellow variety for the market grower or the private gardener. It is a cross between the Golden Bantam and Gill's Early Market and combines the earliness and large size of ear of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to 10 days earlier than Golden Bantam, and has a much larger ear; the ears average 8½ inches long, with 12 to 14 rows.

Not postpaid: Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$7.50.

IMPROVED GOLDEN BANTAM. 85 days. Superior to the original Golden Bantam in quality, and has larger ear. It matures about the same time. Nearly all ears carry 12 rows of deep, rich golden yellow kernels, set close upon the cob. It is a favorite with the market gardener.

Not postpaid: Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$7.50.

★**STOWELL'S EVERGREEN.** 90 days. Most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners. Ears of good size, grain deep; tender and sugary.

Not postpaid: Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$7.50.

★**GOLDEN BANTAM.** 79 days. Hardy, early maturing, very dwarf. Cob is small but fills out nicely with large, deep cream-colored kernels, which turn yellow when ripe. No home gardens should be without this excellent Corn.

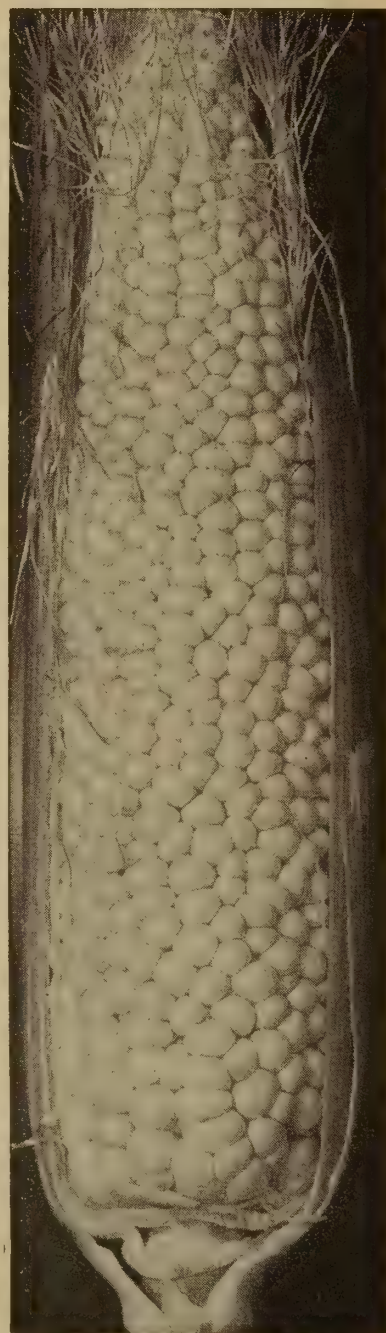
Not postpaid: Lb., 45c; 10 lbs., \$4.00; 25 lbs., \$9.00.

COUNTRY GENTLEMAN. (White or Shoe Peg Corn). 90 days. An especially fine quality Corn; without row formation.

Not postpaid: Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$7.50.

EARLY EVERGREEN. 90 days. Has all the merits of the Stowell's Evergreen. This is a white Corn. It is a splendid variety for the market gardener.

Not postpaid: Lb., 40c; 10 lbs., \$3.50.



Country Gentleman

Sweet Corn - Hybrids

A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of Corn or their combinations.

SENECA DAYBREAK. 60 days. A larger ear than Seneca 60 and is as early. Offers excellent market appearance, and the eating quality is better than most early market hybrids. Seneca Daybreak is outstanding over all other hybrids in its cold resistance and seedling growth.

Not postpaid: Lb., 65c; 10 lbs., \$6.00; 25 lbs., \$14.50; 50 lbs., \$28.00.

SENECA 60 HYBRID. (High quality.) 63 days. The earliest yellow hybrid. Stalks 4½ ft. tall, ears 6½ inches long with 10 to 12 rows of tender, sweet kernels. Well adapted for the northern states and Canada, and is superior in every way. It gives you a first early hybrid with the old Golden Bantam flavor.

Not postpaid: Lb., 65c; 10 lbs., \$6.00; 25 lbs., \$14.50; 50 lbs., \$28.00.

SENECA SUNBEAM. 64 days. A new early market hybrid of North Star season and type with good quality and excellent appearance, cold resistant, good seedling vigor. Ear 7½ inches long, 12 to 14 rowed.

Not postpaid: Lb., 70c; 10 lbs., \$6.50; 25 lbs., \$15.50; 50 lbs., \$30.00.

ALPHA BEST. 65 days. A new outstanding early, vigorous Corn of good quality, for "first on the market" grower. Ears are medium yellow, 9 inches long, 8- to 10-rowed, well filled tips and protecting husk. Plant is 5½ ft., dark green, makes good early growth and is drought resistant. Recommended for freezing.

Not postpaid: Lb., 70c; 10 lbs., \$6.50; 25 lbs., \$15.50; 50 lbs., \$30.00.

FOREMOST EE No. 1. Discontinued, but we recommend GOLD CREST as a substitute, listed below.

GOLD CREST. 67 days. Stalks are sturdy, about 5 feet tall, and highly tolerant of Stewart's Wilt. Ears average 7½ to 8 inches long and are mostly 12-rowed. This is the best extra early Sweet Corn, and has been developed for market, shipping and home gardens.

Not postpaid: Lb., 65c; 10 lbs., \$6.00; 25 lbs., \$14.50; 50 lbs., \$28.00.

GOLD RUSH. 67 days. This is the one. A first early yellow hybrid for early market with strong hybrid vigor and productiveness. 5 ft. tall. Ears 8½ in. 12 to 14-rowed, slightly tapered, filled to tip. Attractive yellow; tight husk. Tender, sweet, fine quality and flavor.

Not postpaid: Lb., 65c; 10 lbs., \$6.00; 25 lbs., \$14.50; 50 lbs., \$28.00.

MARCROSS C13x6. 72 days. Has proved a good early market and home garden variety. Stalks short, sturdy, highly resistant to Stewart's disease. Ears long, plump, abruptly tapered at tips, 10 to 14-rowed with light creamy-yellow, medium broad kernels of good quality.

Not postpaid: Lb., 60c; 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.00.

EVERTENDER "C". 78 days. Unsurpassed for delicious eating quality, whether fresh, canned or frozen. Stalk 6 ft. tall, 8-inch ear with 14 to 16 rows. Color is bright yellow, hulls are thin and very slow to toughen even when overripe. Flavor and sweetness are superb.

Not postpaid: Lb., 75c; 10 lbs., \$6.90; 25 lbs., \$16.75; 50 lbs., \$32.50.

CARMELCROSS. 79 days. A second early hybrid developed by the Connecticut Experiment Station, New Haven. Vigorous and heavy yielding in comparison to its earliness. Medium sized gently tapering ears with 12-14 rows of yellow kernels.

**Not postpaid: Lb., 60c; 10 lbs., \$5.00;
25 lbs., \$11.50; 50 lbs., \$22.00.**

FOREMOST Y-1 or FM CROSS. 80 days. This variety has quickly become popular for fresh market, canning and freezing. Its large, uniform, high quality ears give it an unusually attractive appearance. As compared to Golden Cross Bantam it is earlier, superior in yield, fully equal in quality and has the ability to remain in top condition longer.

**Not postpaid: Lb., 65c; 10 lbs., \$6.00;
25 lbs., \$14.50; 50 lbs., \$28.00.**

TENDERMOST. 83 days. One of the tenderest and sweetest hybrids grown. Holds its outstanding quality until the last ear is picked. Ears are a clear golden color, 9 inches long, 14 to 16-rowed, holding their delicious sweet quality and golden color when cooked. Plants and ears are larger than Golden Cross Bantam and are more resistant to smut. Recommended as a main season crop for canning and freezing.

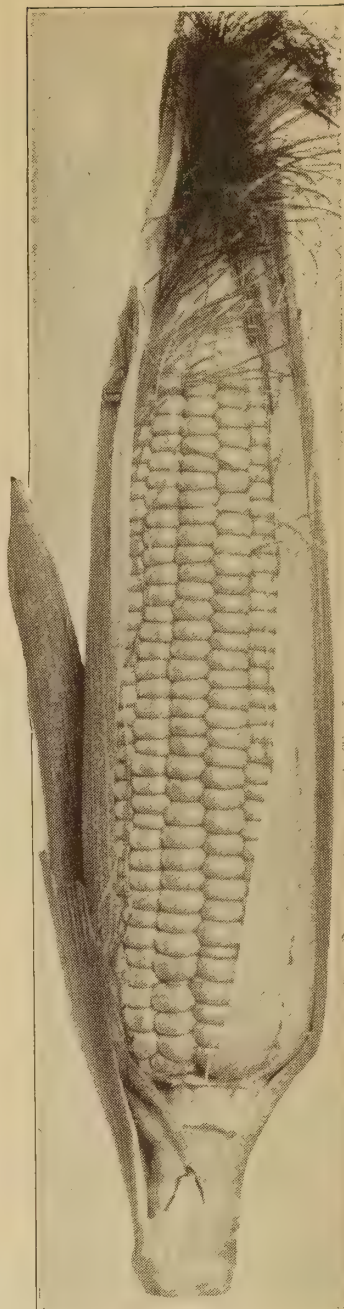
**Not postpaid: Lb., 75c; 10 lbs., \$6.90;
25 lbs., \$16.75; 50 lbs., \$32.50.**

GOLDEN CROSS BANTAM. 85 days. Excellent for market gardens and well adapted for canners' use. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, with exceptionally broad, dark green leaves. Ears 10 to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. Suitable for quick freezing.

**Not postpaid: Lb., 60c; 10 lbs., \$5.00;
25 lbs., \$11.50; 50 lbs., \$22.00.**

IOCHIEF. 89 days. 435-5125. Outstanding among recent introductions for longer ears, heavy tonnage and superior flavor. A main cropper, ideal for canning and market. Kernels golden, deep and uniform. Height of stalk, 6¾ ft. Ears 9 inches long, 14-18 count.

**Not postpaid: Lb., 65c; 10 lbs., \$6.00;
25 lbs., \$14.50; 50 lbs., \$28.00.**



Gold Rush

TWO "NEW" F. M. HYBRIDS

GOLDEN PIRATE. 82 days. This new one is the Iochief type, but easier snapping and maintains all of the outstanding qualities of the Chief and surpasses in some.

FLAVOR GOLD. 85 days. This is the Golden Cross Bantam type, but greatly excels this old standard variety in all characteristics.

Not postpaid: Lb., 75c; 10 lbs., \$6.90.

We will ship on request 1 lb. samples of the above new hybrids to each customer ordering 25 lbs. and up of sweet Corn in one order, as long as our sample allotment lasts.

Pop Corn

AUSTRALIAN HULLESS HYBRID. Dwarf growing; heavy yielder of attractive ears; peculiar form, being nearly as thick as long. Color pearly white. Entirely hullless, making it the tenderest of any Pop Corn when popped.

Not postpaid: Lb., 65c; 5 lbs., \$3.00.

MINNHYBRID No. 250. Developed by the Minnesota Experiment Station from Japanese Hullless over which it showed a marked improvement in yield equivalent to about 15% more per acre with 25 to 30% greater expansion of popping which gives increased tenderness; kernels are white.

Not postpaid: Lb., 65c; 5 lbs., \$3.00.

SOUTH AMERICAN YELLOW. 110 days. Sunburst. Better adapted for Michigan climate. It matures about 2 weeks earlier than the true type South American yellow. Amber color, large size when popped, having a butter-colored tint.

Not postpaid: Lb., 40c; 5 lbs., \$1.75.

Table and Pickling Cucumbers

CULTURAL DIRECTIONS. One ounce of seed to 50 hills; 2 pounds per acre. Cucumbers should not be planted until the ground is warm, about June 1st. For pickles, they may be planted as late as July 1st. They require a warm, rich, sandy soil. Plant in hills about 4 feet apart and about 8 seeds to the hill. When all danger from insects is past, thin to 3 or 4 of the strongest plants. Broadcast 500-600 pounds complete commercial fertilizer before planting.

TWO NEW VARIETIES

SUPER SLICER F₁ HYBRID. (NEW.) This new hybrid is a white spine variety, an early producer of dark green fruit, 8 inches long, well filled out to the end, heavy producer, resistant to mosaic and downy mildew and is recommended for shipping. This NEW F₁ Hybrid should receive a trial by market gardeners who desire an early offering.

½ oz., \$2.75; oz., \$4.50; 4 ozs., \$16.00, postpaid.

WISCONSIN S. M. R. 18. (NEW.) 59 days. A new pickling Cucumber of the National Pickling type, black spine, 6 inches long, blocky, resistant to spot rot and mosaic. One of the latest resistant varieties of pickles offered and has proved its value to growers.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

IMPROVED LONG GREEN. 68 days. A standard late, well-known table sort, 12 to 14 inches long, slender, more or less warted, tapering towards the stem end, color dark green, flesh white and firm.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

ASHLEY. 66 days. Resistant to downy mildew. Vigorous vines and heavily productive. Fruits are dark green, 8 inches long, 2¼ inches wide, tapering to the stem end.

Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

★**IMPROVED "A & C."** 68 days. The vigorous growing, disease-resistant vines produce an abundance of uniform, exceedingly dark green Cucumbers, averaging 10 inches long. The fruits are of uniform diameter from stem to blossom end, are rather slim, averaging 1¼ to 1½ inches in diameter, without any bulge in the center, and with practically no taper at the ends.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

PALOMAR. Mildew resistant. Same shape and type as Marketer, 8 inches long, but matures a few days earlier.

Oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

CHICAGO PICKLING or NATIONAL PICKLING. 58 days. Early, heavy yield. A very prolific variety combining all the qualities desired by those who raise Cucumbers. Fruits are of uniform size and good color.

Oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid.

HYBRID CUCUMBER, FOREMOST SL-1. This F₁ hybrid is the darkest green Cucumber we have ever seen. It is a beautifully symmetrical slicer, 8 inches long, slender and cylindrical with blocky, rounded ends. The flesh is crisp, clear white with unusually small seed cavity. It is white spined, and the spines are very few and very fine. Skin is thick and tender, necessitating careful handling and packing. Earlier than Marketer and A & C.

½ oz., \$2.75; 1 oz., \$4.50; 4 ozs., \$16.00, postpaid.



Improved A & C

STRAIGHT-8. 62 days. This outstanding variety produces symmetrical cylindrical fruits about 8 inches in length, and about 1½ inches in diameter. The fruits are well rounded at the ends. This is an ideal shipping variety.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, ppd.

LONGFELLOW CUCUMBER. 72 days. An excellent long slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. 12 to 14 inches long by 2½ inches in diameter. Fairly early; good healthy grower; very productive.

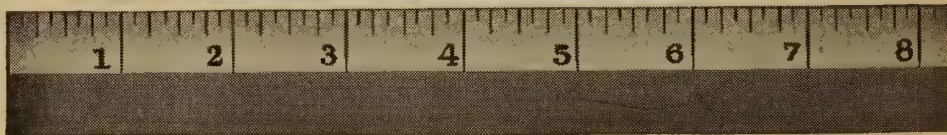
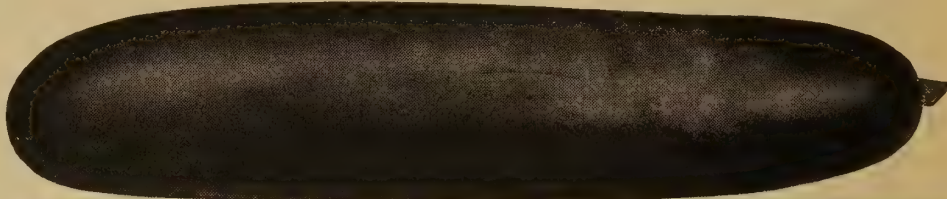
Oz., 25c; ¼ lb., 85c; lb., \$2.50, ppd.

OHIO M. R. 17. Developed at the Ohio University Experimental Station. Mosaic resistant. Compares favorably with National Pickling as to plant type, yield and vigor, but fruits are somewhat more slender, slightly longer, and darker green. Fruits are uniform and a good pickling type.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, ppd.

★**MARKETER.** 70 days. A variety of recent introduction, producing very dark green cylindrical fruits which taper slightly at the ends. Fruits 7½ to 8 inches long, 2¼ inches in diameter. White spined. Vines vigorous and prolific. Its uniform shape and attractive color make it an excellent market variety.

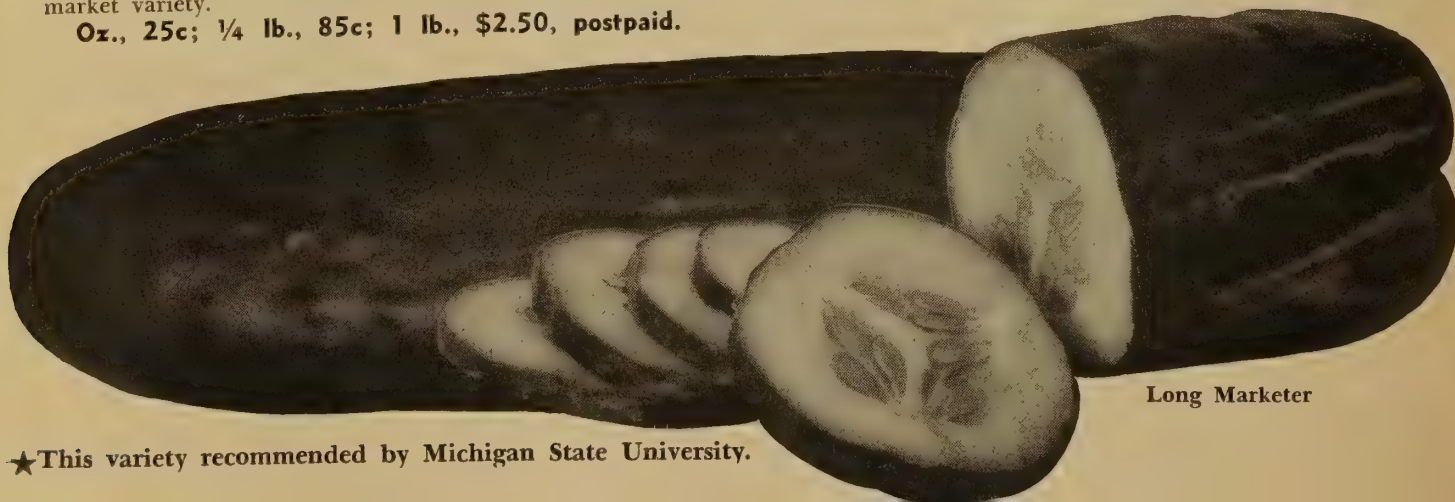
Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



Straight 8

LONG MARKETER. 70 days. 8 to 9 inches long, and a shipping and market variety for areas not troubled with downy mildew. The fruits are uniformly beautiful, long and slim. Color is dark green and holds up well in shipping.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



Long Marketer

DILL

Leaves are used in pickles, and for flavoring soups and sauces. Easily grown.

LONG ISLAND MAMMOTH. Plant 3 to 3½ feet tall, strong aromatic odor and mildly pungent flavor. Has finely cut leaves and flattened seeds.

Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BOUQUET. (NEW.) Height 2 to 3 feet. Plant shorter and stockier than the Mammoth. Lighter green in color. Yields nearly double the oil and flavor as compared with other varieties.

Oz., 20c; ¼ lb., 55c; 1 lb., \$1.75, postpaid.

Eggplant

CULTURAL DIRECTIONS. One ounce to 1000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March, transplant about June 1st, in rows about three feet apart and two feet apart in the row. Eggplant requires a rich soil, free from disease and rotation of crop is recommended.

BLACK BEAUTY. 80 days. Early and productive. Fruit large and of rich glossy black color.

Oz., 80c; ¼ lb., \$2.50; lb., \$8.00, postpaid.

Kale or Borecole

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow from August 1st to September 15th in rows 18 inches apart, and they will yield greens during fall and winter. They are improved by freezing.

DWARF CURLED SCOTCH. 110 days. A handsome, very finely curled, dwarf spreading variety, foliage long and attractive bright green; very hardy.

Oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

TALL CURLED SCOTCH. 110 days. Plants of this variety grow 2 to 3 feet in height, bearing long plume-like light green leaves, which are very much cut and deeply curled at the edges. Very hardy.

Oz., 30c; ¼ lb., 85c; lb., \$2.50, ppd.



Collards

Kohl - Rabi**TURNIP-ROOTED CABBAGE**

CULTURAL DIRECTIONS. One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for fall use. Should be used when young and tender.

EARLY WHITE VIENNA. 60 days. Very early, small tops, can be planted close together; best for forcing, or field culture.

Oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

Leek

AMERICAN FLAG. 150 days. Stem about 10 inches long by 2 inches thick. A strong, vigorous plant with mild flavor. One of the best sorts for the market garden.

Oz., 70c; ¼ lb., \$2.00; lb., \$6.00, postpaid.

ELEPHANT. (Monstrous Carentan). 150 days. Large stems, 6 to 8 inches long, 2 to 3 inches thick. Leaves very dark green, hardy, prolific, for fall and early winter use.

Oz., 70c; ¼ lb., \$2.00; lb., \$6.00, postpaid.



Black
Beauty
Eggplant

Endive

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow in rows about 15 inches apart and thin to one foot apart in the row. Sow seed for fall crop in June or July. When nearly fully grown, tie outer leaves together bringing them up over the head for blanching. A well-formed fertilizer is recommended.

LONG GREEN CURLED or MOSS CURLED. 95 days. Also known as Large Curled Pancalier. A late, coarsely toothed variety of good size, which forms a good blanched heart in the fall. The mid-rib or leaf stem is tinged with rose.

Oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid

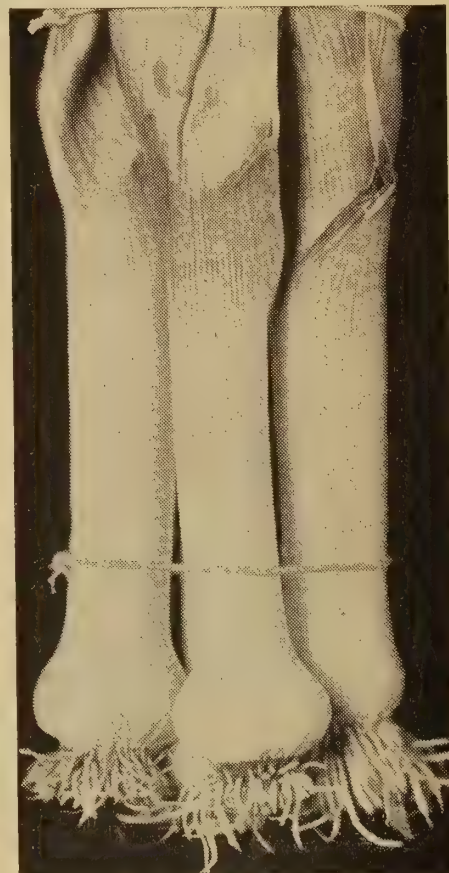
BROAD-LEAVED BATAVIAN. (Escarolle). 90 days. One of the best varieties for salads; leaves of upright growth, broad, more or less twisted and waved, bright deep green, with a nearly white mid-rib. Inner leaves form a fair head which blanches a creamy white.

Oz., 30c; ¼ lb., 85c;
lb., \$2.50, postpaid.

Collards

TRUE GEORGIA. 75 days. Plant 2 to 3 ft. high, forming a cluster of tender, undulated leaves at the top of its rather long stems; used as greens.

Oz., 15c; ¼ lb., 40c;
lb., \$1.10, postpaid.



Leek

Leaf Lettuce

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix a complete commercial fertilizer with the soil and sow seed very early in the spring. For leaf lettuce sow in rows 12 inches apart and do not thin until plants are big enough

to use. Head lettuce should be sown in rows 18-24 inches apart and thinned to 12-15 inches apart in the row.

During warm weather germination may be greatly aided by firming the seed bed and sow the seed shallow. Keep the soil moist until germination is completed.



The above photograph shows the Grand Rapids Forcing Lettuce, Washington Strain, in full bloom in the greenhouse, where it is possible, by careful plant selection, to keep it up to its original purity.

GRAND RAPIDS FORCING LETTUCE, WASHINGTON STRAIN. 45 days. This splendid strain is one of the favorite strains being used by all of the larger growers, who recommend it as a superior Lettuce. The late Mr. Yonker, who was one of our leading greenhouse growers, by careful plant selection, has kept it up to its original purity. It is absolutely true to type. Color is light green, heads very leafy; leaf crisp, tender and curly, quality of the best. We grow our own foundation seed in the greenhouse, as shown by the above photograph and send it to one of the best seed growers on the coast to grow the seed crop. In color on inside front cover.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

GRAND RAPIDS TIP-BURN RESISTANT. 45 days. Color light green, somewhat like the Washington strain, being used for greenhouse growing where tip-burn is visible.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

BLACK-SEEDED SIMPSON. 40 days. One of the best loose-leaved varieties for the home garden or for the market garden, for outdoor sowing. Can be grown all through the season; very tender.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

TENDERGREEN. 45 to 50 days. Originated at the Michigan State University by Dr. Wittwer. A dark, cool weather Lettuce, a cross between G. R. Forcing and Bibb. It grows real well where it is shady, either indoors or outdoors.

1/2 oz., \$1.00; 1 oz., \$1.75; 1/4 lb., \$6.50; postpaid.

BURPEEANA. 75 days. This sensational new Lettuce developed by Burpee Seed Co. is an improved Bibb type, and is both for greenhouse and outdoor production, with increased yields over Bibb up to 25%. It is outstanding in quality, appearance and uniformity. Slow bolting in growth habit. Produces shiny deep green butterheads with very slight bronze marking, moderately crinkled or savoyed, always crisp and tender, never bitter, a very superior sweet flavor.

Oz., \$1.00; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.

PRIZEHEAD. 45 days. A crisp and tender loose-leaved, non-heading sort, color light brown on a medium green base; quality good.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

OAK-LEAVED. 43 days. A distinct Lettuce. Leaves are smooth but are deeply lobed to resemble the leaf of an Oak tree. Medium large size, spreading, fairly dark green. Leaves are thick, succulent and tender.

Oz., 30c; 1/4 lb., \$1.00; 1 lb., \$3.00, postpaid.

Head Lettuce

PREMIER GREAT LAKES. 75 days. Developed from a single plant selection of Great Lakes at Penn. State College. All-America Bronze Medal, 1947. Heads solid, practically round, up to 7 inches in diameter and two pounds in weight. Slow to bolt and very resistant to tip-burn.

Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

WHITE BOSTON. 76 days. Has a fine, large solid head and light green outer leaves, but does not have the brown edges. A tightly folded heart that bleaches to a bright, creamy yellow shade. It is sweet and crisp.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

GREAT LAKES 6238, "Regular Strain." 83 days. A heading variety of the Imperial type, developed by the U. S. Dept. of Agriculture and the Michigan State College. Leaves large and well folded; heavy ribs. Shows considerable resistance to tip-burn and ability to head under adverse conditions.

Oz., 65c; ¼ lb., \$1.75; 1 lb., \$5.25, postpaid.

PENNLAKE. 83 days. Developed at the Pennsylvania Experiment Station, from a cross of Great Lakes and Imperial 847. Heads compact and well covered, protected from scald by broad wrapper leaves. Less ribby than Great Lakes, but equally solid and resistant to tip-burn.

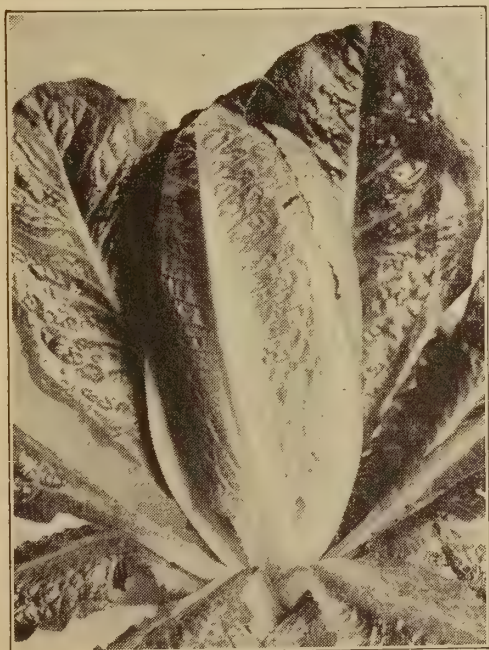
Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

IMPERIAL or CORNELL 456. 82 days. A true selection of the Imperial type. This strain shows great resistance to tip burn. Particularly adapted for muck soils. Frame and head slightly smaller than Great Lakes, but makes a firm and harder head. It is a lighter green in color, and also resistant to early bolting.

Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

GREAT LAKES 659. 88 days. This variety of Great Lakes Head Lettuce forms a large percentage of true uniform heads. Leaves are dark green and wrapped closely around the heads, which are medium size, solid and rounded. Recommended for a late summer and fall crop in northern muck areas.

Oz., 65c; ¼ lb., \$1.75; 1 lb., \$5.25;
5 lbs. or more, \$5.00 per lb, postpaid.



Cos Lettuce

JADE is a large head, very dark green, leaves heavily savoyed (wrinkled and curled) and cold resistant. It is a midseason variety that shows special promise as a fall crop in the irrigated valleys of the Southwest. Its most valuable characteristic is its cold resistance in late stages of growth, and it can be grown so as to mature between the fall and winter crop, the coldest period in these valleys. Jade also shows promise for the early spring crop in the Middle Atlantic states.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.



Imperial or Cornell 456

BIBB. 57 days. A distinct butter head, very dark green variety, which is becoming more popular every year. Loosely folded heads of small size. Leaves thick. Quality excellent.

Oz., 30c; ¼ lb., 90c; 1 lb., \$2.75, postpaid.

EIFFEL TOWER COS. 65 days. A recent introduction; a tall, compact variety with well folded leaves; more cylindrical than the more usual Cos shape.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

DARK GREEN COS. 70 days. A medium large dark green variety which forms a good sized, well folded head.

Oz., 20c; ¼ lb., 60c;
1 lb., \$1.75, postpaid.

ROMAINE or EARLY WHITE SELF-FOLDING LETTUCE. 66 days. We consider this the very best strain of the Cos variety. Very uniform in type, forms a compact, firm head. Color dark green outside, beautifully blanching inside. Very crisp; sweet.

Oz., 20c; ¼ lb., 60c;
1 lb., \$1.75, postpaid.

SALAD BOWL. An excellent home garden Lettuce.

Oz., 65c; ¼ lb., \$1.65;
1 lb., \$4.50, postpaid.



Bibb Lettuce

Muskmelons

CULTURAL DIRECTIONS. One ounce will plant 50 hills, two pounds an acre. Melons do best in a rich, sandy soil. Broadcast 800-1000 pounds complete commercial fertilizer per acre before planting. Hills should be from 4 to 6 feet apart. Plant 10 to 12 seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects is past, thin to three good plants to the hill.

Either No. 10 pyrocid dust or methoxychlor is the control measure to keep your Muskmelons clean. Apply promptly and grow Melons without trouble.

★**HEARTS OF GOLD.** 88 days. A splendid small, midseason variety. Fruit round, 6 inches long and 5½ inches in diameter, weighing 3 to 3½ lbs., with a tendency to heart shape, lightly ribbed and covered with a fine gray netting; flesh very thick, deep salmon color, and of high quality; a good shipping Melon.

Oz., 30c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.

HONEY ROCK. 80 days. Fusarium resistant. One of the most prolific varieties grown. The fruit is round, slightly flattened at the ends, 5 to 6 inches in diameter, weighing 3 to 4 lbs., and distinctly netted. The flesh is soft pink with a greenish tint. The rind is hard and the flesh so firm that it is an excellent shipper.

Oz., 30c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.

SMITH'S WILT RESISTANT HONEY ROCK. Developed by the Michigan State University and proved to be wilt resistant.

Oz., 65c; ¼ lb., \$2.00; lb., \$6.00, postpaid.

HARVEST QUEEN. 85 days. Fusarium-resistant. The Melons are medium sized, oval in shape, with a thick, ropy netting covering the hard rind which ripens from blue-gray to golden yellow. The extra thick flesh is fine textured with a delicious Muskmelon flavor.

Oz., 30c; ¼ lb., 90c; lb., \$3.00, postpaid.

★**GOLDEN DELIGHT.** All-America Bronze Medal for 1952. Outstanding for home and local market, but not recommended for long distance shipping. A large, broad, oval Melon of the Pride of Wisconsin type, but larger and earlier. Very thick salmon-colored flesh with one of the best flavors of any Melon in its class. Attractive grayish green netting with almost indistinct ribbing.

Oz., 30c; ¼ lb., 95c; lb., \$2.75, postpaid.



Golden Delight

IROQUOIS. 90 days. This new Melon has definite resistance to fusarium wilt. Fruits are round to oval, about 6½ inches in diameter, with prominent ribs and good netting; the rind is tough and holds up well. Flesh is deep orange color, of fine texture and excellent quality.

Oz., 30c; ¼ lb., 95c; lb., \$2.75, postpaid.



Honey Rock Muskmelon

SCHOON'S HARD SHELL IMPROVED. 90 days. Thick, oval, prominent ribbing with abundant coarse netting; skin gray-green becoming yellow at maturity; flesh very thick, deep salmon-orange, well flavored, excellent quality. 6½ to 7½ inches in diameter, weighing 5 to 7 lbs.

Oz., 30c; ¼ lb., 95c; lb., \$2.75, postpaid.

EXTRA EARLY OSAGE or MILLER'S EARLY. 84 days. Standard variety of splendid quality for nearby markets and home gardens. Fruits 6 to 7 inches long; almost round; with shallow furrows and sparse shallow netting. Flesh very thick; salmon-orange; fine-grained, sweet, aromatic.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

DELICIOUS No. 51. 83 days. Fusarium resistant. This is one of the early Melons, finely netted, firm orange flesh, fine quality and sweet. Shell is hard and well ribbed. Size is 7 inches by 5 inches. Weight about 7 lbs. Recommended for local market, but not for long distance shipping.

Oz., 30c; ¼ lb., 95c; lb., \$2.75, postpaid.

PRIDE OF WISCONSIN. (Market King.) 85 days. Similar in size and shape to Honey Rock. Oval in shape with tough, heavily netted rind. 6 inches long and 5½ inches in diameter, weighing 3½ to 4½ lbs. Flesh deep orange and very thick, sweet and of excellent quality.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

Mustard

SOUTHERN GIANT CURLED. 60 days. Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the ends.

Oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

LARGE SMOOTH-LEAF. 50 days. Large, vigorous leaves, broad and oval, deep green, margin toothed but otherwise plain.

Oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

Okra or Gumbo

DWARF LONG POD GREEN. 55 days. Replacing White Velvet Prolific. Plant 2½ to 3 feet tall; pods dark green, fleshy and tender, become 7 to 8 inches long and 1½ inches in diameter. Distinctly ribbed and tapered.

Oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

PERKINS MAMMOTH LONG POD. 56 days. For home and market garden. Plants 4 to 5 feet tall, pods dark green, fleshy, tender, becoming 7 to 8 inches long. Distinctly ribbed and tapered.

Oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

EMERALD. 57 days. Developed by Campbell Soup Co. as an excellent home and market variety with very dark green, round and spineless pods. Plants are dwarf and vigorous, with dark green leaves.

Oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

★This variety recommended by Michigan State University.

Selected Varieties of Watermelon

CULTURAL DIRECTIONS. One ounce to 30 hills, about four pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.



New Hampshire Midget

NEW HAMPSHIRE MIDGET. 69 days. Was introduced by the New Hampshire Experiment Station and won an All-America Selection Award. It is a small or "ice-box" type of Melon. It reaches maturity much earlier than most varieties in the northern areas, and its popularity will probably be restricted to this section. The Melon is small, elliptically shaped, with a thin rind and many small seeds. It must be harvested at early maturity, since it will not hold up well if it becomes over-ripe.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

HARRIS EARLIEST (Cole's Early). 75 days. The best extremely early variety; fruits medium size, broad, oval; weighing 10 to 12 lbs., dark green stripes alternate with lighter; rind brittle, flesh bright red of good quality, seeds blackish.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.



Sugar Baby Watermelon

SUGAR BABY. 85 days. This new variety of ice box Melon is a great improvement in its class. Very uniform, nearly round, average 7 inches in diameter. The rind is hard, making it a good shipper. It ripens to a smooth dark green. The flesh is solid, crisp and bright red, with small brown seeds. Flavor is very sweet and tasty. Unexcelled in quality in this midget class.

Oz., 30c; ¼ lb., 95c; 1 lb., \$2.75, postpaid.



Dixie Queen Watermelon

DIXIE QUEEN. 85 days. Wilt resistant. A new variety for the market and the home garden. Excellent quality, fruit nearly round, with light and dark green stripes, growing to a good size. Rind thin, but tough—flesh bright scarlet, solid, of fine texture, weighing around 30 lbs.

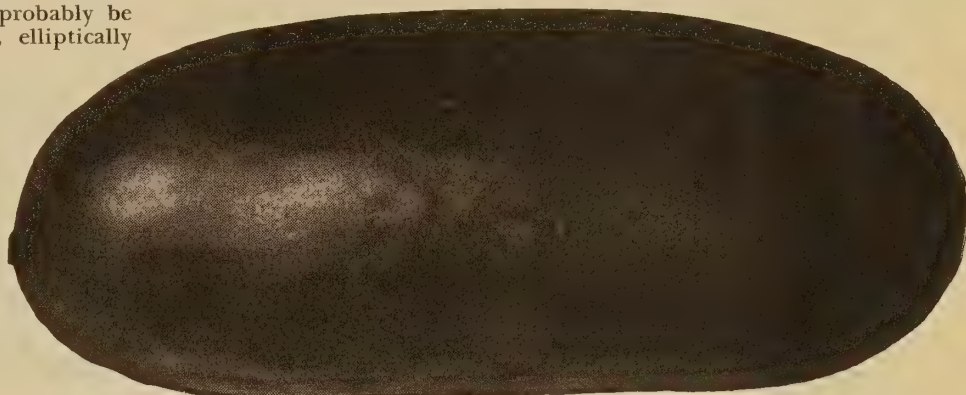
Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

KLONDYKE, BLACK SEEDED. 85 days. An important market and early shipping variety. Melon is fairly large, averaging 16 inches long and 8 inches in diameter, slightly flattened ends. Exterior color dark green, very thin rind; flesh bright scarlet.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

CHILEAN BLACK SEEDED. 80-85 days. Fruit 10x9 inches, almost round, medium green exterior with darker green stripes, brilliant red flesh, black seed. A popular medium sized variety.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.



Kleckley Sweet No. 6

KLECKLEY SWEET No. 6. 85 days. Wilt resistant. One of the sweetest Melons on the market; medium early, long, averaging 18 to 20 inches, slightly tapering to the stem end, weighing 30 to 40 pounds. Rind very dark green, flesh very bright red and ripens nearly to the rind. Too tender for a shipping Melon, but excellent for market and home garden.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

CALIFORNIA HONEY OR EARLY ARIZONA. 75 days. Recommended for home garden and short distance shipping. Dark green color and nearly round, 10 in. x 9½ in. Flesh is bright red, very sweet, dark brown seeds.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

CHARLESTON GREY. (Anthracnose—wilt resistant.). 85 days. A long distance shipper, size 24 inches by 10 inches. Weight 35 lbs. Color is grey-green, vein striped, long and strong.

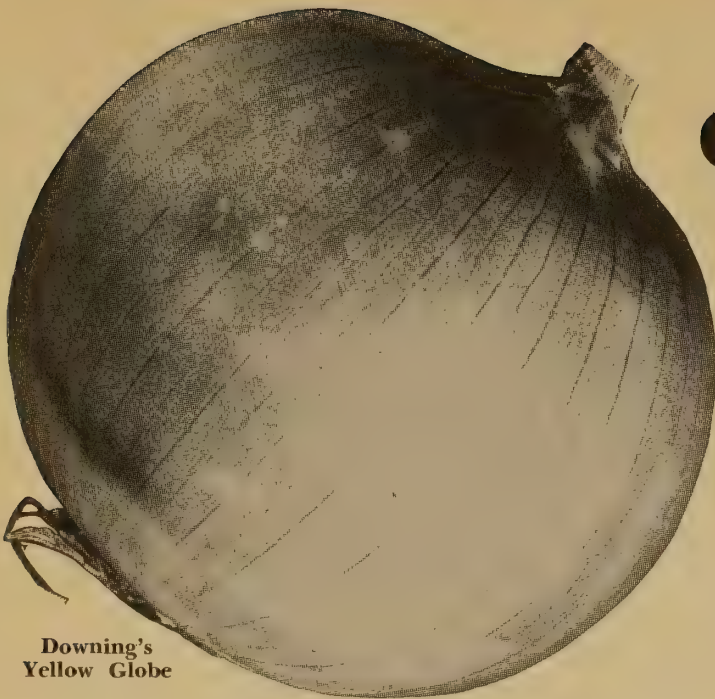
Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

TOM WATSON. 92 days. Melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 35 to 40 lbs. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

CITRON, RED SEEDED. 90 days. The old well known red-seeded preserving Melon.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.



Downing's
Yellow Globe

Choice Onion Seed

CULTURAL DIRECTIONS. One ounce to 150 feet of drill; about 4 to 6 pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 3-9-27 fertilizer. Drill in rows about a foot apart, covering seed to a depth of 1/2 inch. Use only fresh, 1-year-old Onion seed.

On dry Onions Dieldrin 1 1/2% dust gives excellent control of both maggots and thrips. This material should not be used on a crop to be used as green Onions.

DOWNING'S YELLOW GLOBE. A new strain of Yellow Globe type, and superseding all the others. Compared with Brigham Yellow Globe, it has a uniformly darker color and is considered an improvement over the well known storage types. Bulbs globe-shaped, are very solid with tight fitting skins; excellent keeping qualities. 110 days to maturity.

Oz., 50c; 1/4 lb., \$1.30; lb., \$3.75, postpaid.

Not postpaid: 10 lbs., \$36.00.

BRIGHAM STRAIN. (The long keeping Onion). 109 days. One of the leading varieties of yellow globe Onions. Bulbs are selected for type and quality and produce larger Onions with a vigorous growth. Good keepers, globe shaped, rich golden color.

Oz., 50c; 1/4 lb., \$1.30; lb., \$3.75, postpaid.

Not postpaid: 10 lbs., \$36.00.

Sweet Spanish

UTAH SWEET SPANISH. 110 days. Deep yellow color, excellent keeping qualities, thicker skin and uniformity in size. Bulbs globe shape, about 2 1/2 to 3 inches, when larger a slightly flattened globe shape. Flesh white, of mild, pleasing flavor.

Oz., 60c; 1/4 lb., \$1.80; lb., \$5.50, postpaid.

SWEET SPANISH, GROWERS STRAIN. 110 days. The largest yielder of the yellow Onions, averaging 3 to 4 inches in diameter. The best and not susceptible to the attack of thrip. Good keeper and shipper.

Oz., 60c; 1/4 lb., \$1.80; lb., \$5.50, postpaid.

WHITE SWEET SPANISH. 110 days. Similar to original Sweet Spanish, except white with glistening skin. Globe-shaped.

Oz., 60c; 1/4 lb., \$1.80; lb., \$5.50, postpaid.

★**SOUTHPORT WHITE GLOBE.** 120 days. Same type as Southport Yellow Globe, with a thin delicate skin of pure paper whiteness, but two weeks earlier and exceedingly mild.

It usually commands the highest price on the market.

Oz., 50c; 1/4 lb., \$1.50;
lb., \$4.50, postpaid.

10 lbs., \$42.50.

WHITE PORTUGAL or SILVERSKIN. 100 days. An early flat white Onion of mild flavor. Used mostly to grow sets.

Oz., 50c; 1/4 lb., \$1.50;
lb., \$4.50, postpaid.

WHITE WELCH. 100 days. While it forms no bulbs it is one of the best for bunching as green Onions. Very hardy. The white shoots make a rapid growth and are ready for market ahead of those from sets. Mild and delicate in flavor.

Oz., 50c; 1/4 lb., \$1.50;
lb., \$4.50, postpaid.

LONG BUNCHING (Heshiko.) (American grown.) A new perennial bunching Onion that does not form a bulb.

Oz., 45c; 1/4 lb., \$1.35;
lb., \$4.00, postpaid.

Chives

A hardy perennial of the Onion type. Listed under "Herbs" on page 29.

Pkt., 15c; oz., 70c;

1/4 lb., \$2.25, postpaid.



Hybrid Onions

Hybrid Onions

EARLY HARVEST. 88 days. This early hybrid variety produces bulbs that are round, light yellow skin, white flesh, slender neck. A crop of this variety from seed will mature as quickly as one planted to sets. Bred especially for northern areas.

ABUNDANCE. 103 days. A hybrid of the Early Yellow Globe class which produces exceptionally high yields. Very deep globe in shape. Outer scales are dark straw to coppery bronze in color. Too soft for bulk storage.

ARISTOCRAT. 105 days. Sorry, sold out for this year.

EPOCH. 108 days. A very hard, thick-skinned storage type. Yields about the same as Brigham Yellow Globe but is more uniformly hard and thick-skinned. Shape is full globe and dry scales are very dark bronze in color.

Prices of the above four: Oz., \$1.00; 1/4 lb., \$3.00; lb., \$9.50, postpaid. In 10 lb. lots, \$9.25 per lb.

AUTUMN SPICE. An extra hard, long keeping Onion. Autumn Spice has been highly successful in many Onion sections, especially in Canada and the Middle West. The bulbs are medium size and globe to deep globe in shape with small necks and they are well protected with a thick skin of fine color. Used for prepackaging as well as general market use, and because of its uniformly attractive bulbs that can be stored in winter.

Oz., 75c; 1/4 lb., \$2.25; lb., \$8.25, postpaid.

Not postpaid: 10 lbs., \$8.00.



Long Bunching Onions

Parsnips

CULTURAL DIRECTIONS. One ounce will sow 100-150 feet of drill, 3 to 4 pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly, covering to depth of ½ inch. Thin as for Carrots. Use only fresh one-year-old seed. Parsnips may require several weeks to germinate.

HOLLOW CROWN. 130 days. Thick shoulder. This variety is more generally grown than any other sort; roots smooth, tender and sugary.

Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

SHORT THICK. 100 days. A fine bunch vegetable, tops one-half size of Hollow Crown. Short, thick roots, free from strings, flavor much more delicate than other varieties of Parsnips. Fully a month earlier than Hollow Crown and reach maturity in 100 days.

Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

HARRIS EARLY MODEL. 95 days. Root is 10 inches long by 3½ inches thick at the shoulder, tapers off more abruptly than Hollow Crown. Flesh white, tender and sweet. Good quality, very white and free from side roots.

Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

ALL-AMERICAN. 95 days. Root is 12 inches long by 3 inches thick at the shoulder, tapering gradually to the tip, smooth and decidedly hollow crown. Flesh white and tender. Selected for whiteness of skin color, and slightly more length. Smooth and very few side roots.

Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

Garden Peas

Due to the increase in postage rates, PEAS are not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

CULTURAL DIRECTIONS. Two pounds will plant 100 feet of drill; about 2 bushels or 120 pounds per acre. Peas do best on well drained, rich, sandy loam that has been manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

ALASKA. (Wilt resistant.) 57 days. A small, smooth blue Pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vine about two feet in height, pods small but well filled. Can nearly all be harvested at one picking.

Alaska only. Not postpaid: Lb., 40c; 10 lbs., \$2.90; 25 lbs., \$6.25.

LITTLE MARVEL. 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches, filled with deliciously sweet Peas. Vines about 15 inches tall.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

★**IMPROVED LAXTONIAN.** 62 days. The best of Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches, broad, containing eight large Peas of excellent quality. The best second early, big-podded sort. Suitable for quick freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

★**THOMAS LAXTON.** 62 days. One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunt-ended and well filled with large Peas. Peas wrinkled. Suitable for quick freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

LAXTON'S PROGRESS or MORSE'S PROGRESS No. 9. (Wilt resistant.) 62 days. Splendid variety for home market garden and shipping. Vines dwarf, about 22 inches. dark green, prolific. Pods 4¼ inches long, handsome; dark green; plump, tapered at ends. Seeds large, wrinkled, cream, interior yellow. Suitable for quick freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

WANDO. (NEW.) 68 days. Heat resistant. Vines 26 inches, pods 3½ inches, Pea wrinkled, dark green, medium size, good quality. Suitable for freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

★**DWARF TELEPHONE.** A splendid main crop Pea, coming between the Telephone and Stratagem. Of the Stratagem type, but a heavier yielder. Height 2½ feet. Foliage very heavy, sturdy and dark green. Pods 4¼ inches long, dark green, broad, straight and pointed, containing nine large, medium dark green Peas of the best quality. Suitable for quick freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

★**ALDERMAN or TELEPHONE.** 72 days. Vines about 4 feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Suitable for quick freezing.

Not postpaid: Lb., 45c; 10 lbs., \$3.30; 25 lbs., \$7.25.

★Due to present rates of postage and pending changes, please bear in mind that anything that is quoted "Not Postpaid" means the postage will be extra and in the case of 10 lbs. of Peas, the mailing weight would be at least 12 or 13 lbs. on which the rates in force at time of ordering would prevail. Additional money must be included with the order for the postage, however, if it is not enough to cover the postage due, we will weigh the seeds to cover the actual funds received. Any extra money that is sent, and not needed, will be refunded immediately when your order is filled.

Parsley

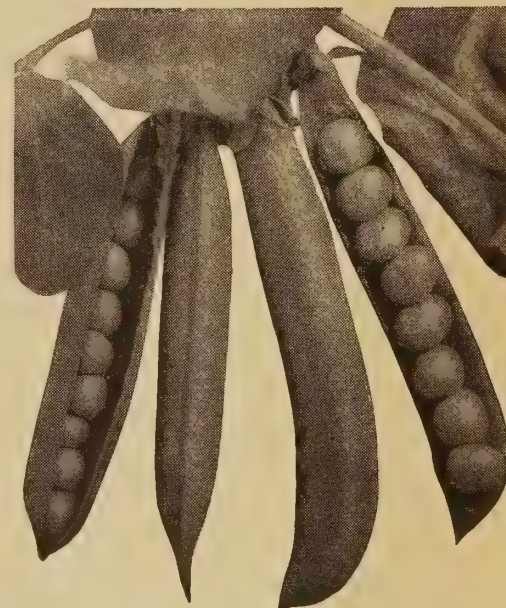
CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows 15 in. apart, thin to 4 or 5 in. apart in the row. Parsley requires rich soil.

TRIPLE CURLED. (Paramount.) 85 days. Plant handsome, beautifully curled and rapid grower. Will produce a large crop.

Oz., 25c; ¼ lb., 75c;
1 lb., \$2.25, postpaid.

HAMBURG ROOTED. 90 days. Grown for the root which resembles a Parsnip in shape and color. Foliage very much like plain Parsley.

Oz., 25c; ¼ lb., 75c;
1 lb., \$2.25, postpaid.



Little Marvel

Edible Pod Sugar Peas

DWARF GRAY SUGAR. 62 days. A dwarf, edible pod variety. Vines about 2 feet high. Cook pods like string Beans.

Not postpaid: Lb., 45c;
10 lbs., \$3.30; 25 lbs., \$7.25.

CALIFORNIA BLACK EYE. 95 days. A newer improved selection. Has concentrated pod set at crown. Holds pods erect, has large seed and is resistant to charcoal rot, Cowpea wilt and nematodes. Normally much more productive than the old type Black Eye. Popular for edible purposes.

Not postpaid: Lb., 40c;
10 lbs., \$4.00.



Liberty Bell

KEYSTONE RESISTANT GIANT. (Mosaic Resistant.) 74 days. Plant is 28 inches tall, upright and vigorous, extremely thick stems and abundant foliage. sets fruit 4½ inches long, 3¾ inches across, mostly 4-lobed. Attractive dark green turning dark red when ripe.

Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

LIBERTY BELL. Pendent fruited California Wonder type with resistance to Tobacco mosaic and a tolerance of at least one strain of Cucumber mosaic. Fruits predominantly 4-lobed, thick-walled, blocky and deep green in color.

Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

LONG RED CAYENNE. 70 days. Pendent fruits about 5 inches long and ¾ inch in diameter at the base, often curved and twisted; bright red, hot and pungent.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.25, postpaid.

HUNGARIAN YELLOW WAX. (Hot.) 60 days. Very early. Desirable for home, market garden and canning. Plants small, heavily productive. Fruits 6 to 7 inches long, 2 inches thick, tapered, smooth, waxy light yellow becoming bright red. Flesh thick, pungent.

Oz., 75c; ¼ lb., \$2.50; 1 lb., \$7.50, postpaid.

HUNGARIAN YELLOW SWEET. 60 days. Considered the first early Pepper in the season. The fruit is from 5½ to 6 inches long by 1½ inches in diameter, tapered, smooth flesh; is fairly thick and pungent. Color is waxy yellow, becoming a bright red at maturity.

Oz., 75c; ¼ lb. \$2.50; 1 lb., \$8.00, postpaid.

SWEET BANANA. 65 days. The plant is 20 to 24 inches tall, upright, dark green, very vigorous, heavy foliage of large leaves. Fruit 6½ to 7½ inches long, 1½ inches in diameter, tapered to the point with very slight curve; sweet, medium flesh wall, light yellow turning to bright red at maturity. Is an excellent variety for home and garden.

Oz., 75c; ¼ lb. \$2.50; 1 lb., \$8.00, postpaid.

BULL NOSE or LARGE BELL. 55 days. Large, bell-shaped, thick fleshed fruit. Good for Mango pickles.

Oz., 75c; ¼ lb., \$2.50; 1 lb., \$8.00, postpaid.

ROUMANIAN. (Sweet.) 67 days. An attractive waxy yellow variety. Fruits 4 to 4½ inches long.

Oz., \$1.25; ¼ lb., \$4.25; 1 lb., \$15.00, postpaid.

RUBY KING. 65 days. One of the most profitable and satisfactory varieties for the home or market garden; plants are early, productive and of dwarf compact, upright growth; fruits pendent, often 4 to 6 inches long by 3 to 4 inches thick, tapering and of a bright ruby-red color; flesh is thick, mild and sweet.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.25, postpaid.

PIMENTO. 73 days. A rather late, very thick-fleshed, heart-shaped, smooth, mild, crimson variety; much used for salads.

Oz., 75c; ¼ lb. \$2.50; 1 lb., \$8.00, postpaid.

RED CHILI. 85 days. Small, red, cone-shaped. Very hot and prolific. Used for seasoning.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.25, postpaid.

Peppers

CULTURAL DIRECTIONS. One ounce will produce about 2000 plants; 8000-9000 plants for an acre. Sow seeds in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about 3 feet apart and 18 inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

CALIFORNIA WONDER. 72 days. Thickness of flesh alone, which is often ¾ of an inch, places this sweet Pepper above all others. Vigorous growing plants, blocky fruit 5 inches long and 4 inches wide.

Oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.25, postpaid.

YOLO WONDER. 74 days. Mosaic resistant California Wonder strain. Fruit 3 to 4 lobed, blocky and smooth, flesh thick with mild sweet flavor. Dark green changing to brilliant red.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

OAKVIEW WONDER. 63 days. An earlier and more productive strain of California Wonder. Fruits blocky, smooth, with thick, mild, sweet flesh. Plants shorter and stockier but fruits are set earlier and more abundantly.

Oz., 80c; ¼ lb., \$2.75; 1 lb., \$8.75, postpaid.

HARRIS EARLY GIANT. 62 days. The earliest and most prolific of all large Peppers. Plant is dwarf and compact in habit of growth, bearing as much as 12 pendant fruits on a single plant. Peppers are red right from the start, measuring 5 inches long, 3½ inches in diameter; 3 lobed, mild and sweet.

Oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$9.00, postpaid.

KING OF THE NORTH. 64 days. A late introduction and a winner. Similar in type to Ruby King but decidedly earlier. The plant is of medium size and prolific. The fruit is long, moderately slender, tapering to 3 or 4 points.

Oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$9.00, postpaid.

WORLD BEATER No. 13. (Mosaic Resistant.) 70 days. Plant 26 inches tall, upright, vigorous, uniform, very productive. Good protecting foliage. Fruit is 4½ inches long, and 4 inches wide at the base, well shaped. Sweet, medium thick flesh wall. Color green turning bright red at maturity.

Oz., 80c; ¼ lb., \$2.40; 1 lb., \$7.50, postpaid.

Oakview
Wonder



Sugar Pie

SUGAR PIE. 110 days. Earliest and best for pies. Fruits commonly 6 inches long and 9 inches in diameter, flattened and furrowed, skin smooth, rich reddish orange. Rind is hard. Flesh is thick orange-yellow. High quality.

Oz., 25c; 1/4 lb., 70c; lb., \$1.85, postpaid.

KING OF THE MAMMOTH. Productive; of high feeding value—generally grown for stock feed. Fruits enormous, nearly spherical. Skin reddish yellow; flesh thick, bright yellow, firm, rather coarse. Squash-like resemblance.

Oz., 25c; 1/4 lb., 70c; lb., \$1.85, postpaid.

Pumpkins

CULTURAL DIRECTIONS. One ounce of seed for 20 hills. About 3 pounds per acre. Seed should be planted in hills 8 to 10 feet apart each way, after soil gets warm. Cultivate until vines begin to run. Cut Pumpkins after leaves die, leaving 3 to 4 inches of stem attached to fruit. Store in a dry place, and do not bruise. Dust with pyrocyde No. 10 or rotenone to control vine borer.

HALLOWE'EN TYPE

CONNECTICUT FIELD. 115 days. Standard field Pumpkin for pies, canning and stock feed. Fruits very large, commonly 12 inches long, 14 inches in diameter, and weigh 20 pounds; sometimes much larger. Skin smooth, deep orange-yellow; shell thin, hard; flesh thick, coarse, sweet and deep yellow.

Oz., 25c; 1/4 lb., 70c; lb., \$1.85, postpaid.

JACK O' LANTERN or HALLOWE'EN. A strain of Connecticut Field variety, selected for the Hallowe'en trade. Size 7 1/2 to 8 inches in diameter with 8 to 9 inches in height. Perfect for Hallowe'en but can be used as a table Pumpkin. Outside color is orange and flesh is tender and sweet.

Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.

Radishes

NOTICE: We do not prepay postage on RADISH seed at the 10-lb. quantity price. Please refer to page 3 for the parcel post rate and make allowance for packing and package.

RED BOY. (NEW). 22 days. A new outstanding Northrup King development, bred for high yielding ability and extremely short top (only 2 to 2 1/2 inches). Red Boy is in the Cherry Belle class, very uniform and a dependable bulber. Ideally suited for high nitrogen soils. It has an intense bright scarlet-red bulb color for poly-bags or bunching. Round to globe-shape, crispy firm flesh. Order early.

Oz., 15c; 1/4 lb., 30c; lb., \$1.00, postpaid.
Not postpaid: 10 lbs. or more, 80c per lb.

CAVALIER. 25 days. A highly colored and attractive variety for all purposes and especially for shipping. Tops small, roots oblong-globe, very firm and of bright red color. Especially adapted for growing on muck soils.

Oz., 15c; 1/4 lb., 30c; lb., \$1.00, postpaid.
Not postpaid: 10 lbs. or more, 80c per lb.

EARLY SCARLET GLOBE. 20 days. This old favorite round red globe Radish is grown from the best parent stock available. Bulbs globe-shape, uniform, crisp and tender and hold up well. Tops are medium small. May be used for greenhouse forcing, but not recommended for muck soils.

Oz., 15c; 1/4 lb., 30c; lb., \$1.00, postpaid.
Not postpaid: 10 lbs. or more, 80c per lb.

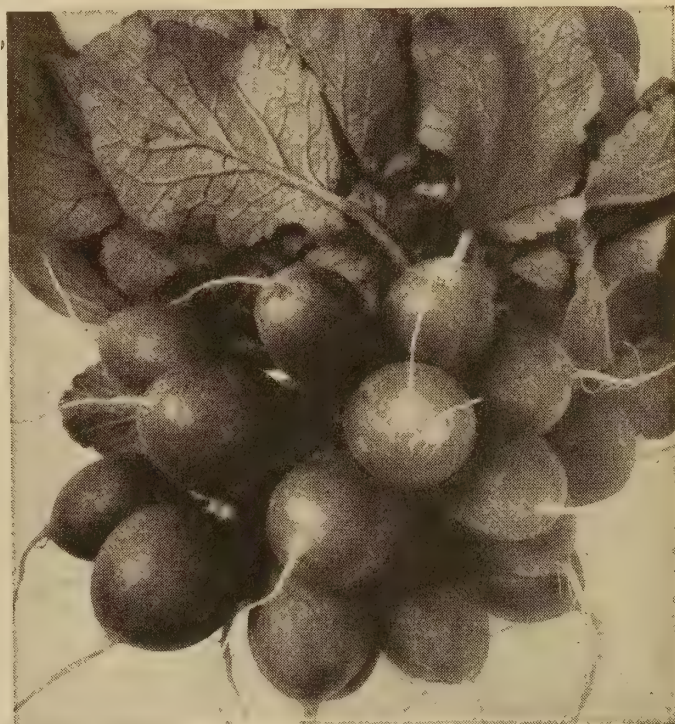
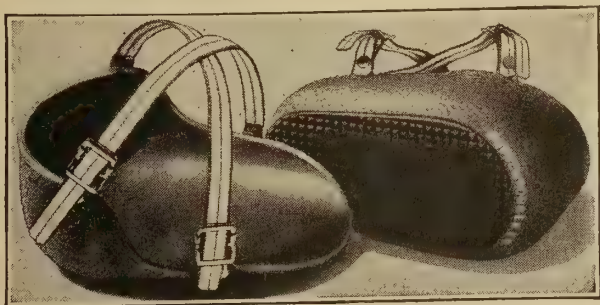
GRAND RAPIDS FORCING. 20 days. The best greenhouse variety and the earliest of the Scarlet Globe type. It has the shortest top and when properly grown produces the most attractive crimson-red bulb, either for packaging or bunching. Recommended for muck soils. In color on inside front cover.

Oz., 15c; 1/4 lb., 30c; lb., \$1.00, postpaid.
Not postpaid: 10 lbs. or more, 80c per lb.

Knee Pads

The most comfortable, sturdy, long wearing knee pads available. Constructed of top quality molded rubber, with soft sponge rubber cushion on the inside gives positive protection against sore, aching knees. Light weight, and form fit for any knee. Ideal for anybody who is a down-on-the-knee worker. Mailing weight 3 lbs.

Price: \$2.95 per pair. Postage will be extra.



Grand Rapids Forcing Radish



White Icicle

RADISHES—Continued

CHERRY BELLE. 22 days. Rapidly becoming a standard variety for market, bunching and cello-pak. Pinkish dull scarlet-red roots are firm, round, well refined tips, have fine tap roots, and keep longer without becoming pithy than other varieties of this type. The short tops are small and slightly darker than the strains of Scarlet Globe Short Top.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.
Not postpaid, 10 lbs. or more, 80c per lb.

COMET. 25 days. Brightest colored of the bunching Radishes. Globe shaped, suitable for use when ⅝ to ¾ inches in diameter, but become much larger without becoming pithy. Tops are slightly larger than Scarlet Globe. Roots attractive, bright clear red.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

FRENCH BREAKFAST. 20 days. Of oblong shape, small, quick growing, color rose-scarlet, with small white tip.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

COOPER'S SPARKLER or SCARLET TURNIP WHITE TIP. 25 days. The Sparkler is a round globe-shaped bulb with a bright scarlet reddish upper portion shading to a white tipped Radish and very attractive for market trade.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.
Not postpaid, 10 lbs. or more, 80c per lb.

CRIMSON GIANT. 28 days. Larger than any other extra early variety but does not become pithy. Crimson-carminc. Turnip-shaped, flesh firm, crisp and tender.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

★**ICICLE.** (Short Top.) 25 days. One of the earliest long varieties, white throughout. Very crisp and tender.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

Winter Radishes

WHITE WINTER. (Celestial.) 60 days. Roots 6 to 8 inches long, thick, cylindrical and smooth, with a beautiful white skin and flesh, the whitest and least pungent of the winter Radishes.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.
10-lb. lots, 80c per lb.



Salsify

CHINESE ROSE WINTER. 52 days. Roots 4 or 5 inches long, blunt at both ends, about 2 inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best winter sorts.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.
10-lb. lots, 80c per lb.

ROUND BLACK SPANISH. 56 days. Round, 3 to 4 inches in diameter. Skin almost black; flesh white, crisp and pungent.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.
10-lb. lots, 80c per lb.



French Breakfast Radish

Salsify or Vegetable Oyster

CULTURAL DIRECTIONS. One ounce to 75 feet of drill; 5 or 6 pounds to the acre. Sow the seed early in the spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. Like Parsnips, they may be left in the ground all winter and dug as soon as the ground is thawed. Salsify prefers a deep, rich sandy soil.

MAMMOTH SANDWICH ISLAND. 150 days. A splendid variety producing large, thick, tapering roots. Very uniform, mild and delicious in flavor. A popular sort with the market gardeners.

Oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

Spinach

Due to increased postage rates, SPINACH is not postpaid beyond the second zone, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

CULTURAL DIRECTIONS. One ounce to 100 feet of drill; eight to ten pounds per acre. Sow early for spring crop; in August for fall use; and if sown from the middle to last of September, and protected during the winter with a light covering of straw, it will be ready for use very early in the spring.

LONG STANDING BLOOMSDALE. 42 days. Uniform plants of long standing quality makes this a leading home and market variety. Will stand 10 to 14 days before bolting to seed. Dark green, heavy crumpled leaf. Suitable for quick freezing.

VIRGINIA SAVOY BLIGHT-RESISTANT. 40 days. The low growing, wide-spreading habit makes it most desirable for winter Spinach. Plants of this type attain a very large size in late fall and carry well into early spring. A single plant often weighs more than a pound. Suitable for quick freezing.



Long Standing Bloomsdale Spinach

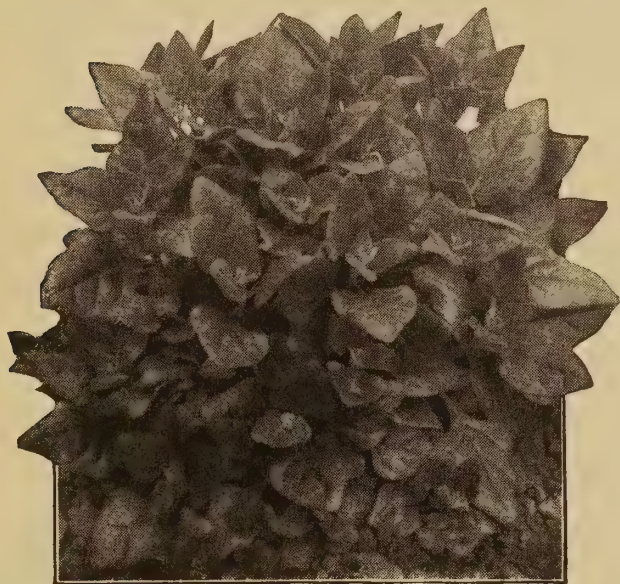
AMERICA. 44 days. A new savoy type Spinach that stands longer than any other variety, but develops rather slowly. Plant similar to Bloomsdale Long Standing.

VIKING or HEAVY PACK. 45 days. The best improved strain of Viking. Darker green in color. Plants strong and vigorous, with thick heavy leaves, spreading to large, well formed heads. Highly recommended in place of other smooth leaf types for market grower and suitable for quick freezing.

All of the above: Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

NEW ZEALAND. 60 days. Entirely distinct from the other varieties. Plant tall and spreading, leaves medium green, rather small and pointed. Prickly seeded.

Oz., 15c; ¼ lb., 25c; 1 lb., 75c.



New Zealand Spinach

Rutabagas

Mature in 100 days.

AMERICAN PURPLE TOP. A hardy, productive variety with small neck; roots large, globe-shaped, with small tap roots, bright yellow in color with purple top, solid, tender and sweet. Our strain is the best available.

Oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

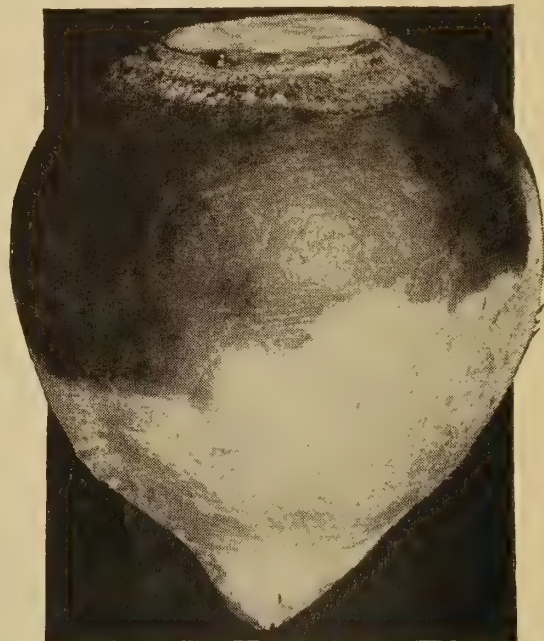
CANADIAN GEM. (Laurentian Neckless). A strain of Purple Top Swede, much preferred in Canada. Tops short, practically neckless. Roots large, spherical, purplish red above ground, light yellow below. Flesh creamy yellow, firm, mild and sweet.

Oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

BLOSSOM SET. (The no seed Hormone.) Makes Tomatoes ripen one to three weeks earlier. It is easy to use. Just spray the blossoms as they open.

4 ozs. (makes 1 gal.), 75c; 1 pt. (makes 4 gals.), \$1.75.

New 12-oz. Aerosol size which is ready to use, enough for 100 plants, only \$1.79.



American Purple Top Rutabaga

★ This variety recommended by Michigan State University.

Squash

CULTURAL DIRECTIONS. For summer Squash, one ounce to 25 hills; 2 to 3 pounds per acre. For winter Squash, one ounce to 10 hills; about 3 pounds per acre. After danger of frost is past, plant 8 to 10 seeds to the hill for summer sorts, about 4 feet apart, the last of May; and winter varieties in hills about 8 feet apart, from the middle of June to July first. Do not bruise or break the stems of winter Squash when gathering. Store in a cool, dry place. Dust with pyrocide No. 10 or rotenone to control vine borer.

EARLY PROLIFIC STRAIGHTNECK. 50 days. A high yielding summer Squash. Fruits straight, smooth, and of delicate creamy color. Will grow 12 to 14 inches long but can be eaten when smaller. Quality unsurpassed.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.



Buttercup
Squash

GIANT SUMMER CROOKNECK. 55 days. The largest and one of the earliest summer varieties; fruit often 2 to 2½ ft. long, very warty and deep orange in color.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.

GOLDEN SUMMER CROOKNECK. 55 days. A standard early and productive summer Squash; fruits about a foot long, moderately warted and of bright yellow color.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.

CASERTA. 58 days. An early bush type Squash, producing fruits at least a week earlier than Cocozelle. Earliness and high productivity should make this a favorite for market and home garden. Fruits, when young are grayish green, striped with darker green; at maturity fruits average 14 to 16 inches.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

ZUCCHINI. 65 days. Straight, almost cylindrical, becoming 18 inches long and 4 inches in diameter, medium green with grayish green mottling. In best edible condition when 6 to 8 inches long.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

ZUCCHINI, DARK GREEN. (Black Zucchini). 65 days. This is considered more desirable than the older type which it resembles in all respects except color. Fruits smooth, cylindrical, rich dark green, no striping or mottling.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

COCOZELLA DI NAPOLI. (Italian Vegetable Marrow.) 60 days.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

TABLE QUEEN (Acorn or Des Moines.) 80 days. Extremely prolific; one of the most popular for home, market, garden and shipping. Fruit pointed acorn shape; 5½ inches long and 4 inches through, uniformly ridged; skin smooth, dark green; shell thin; flesh light yellow, bakes dry and sweet.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

MAMMOTH TABLE QUEEN. 90 days. Similar to the regular Table Queen Squash, but larger in size. The quality is unsurpassed and it is a wonderful addition. Much in demand by both home and market gardeners.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

SILVER BELL. 100 days. Delicious Sweet Potato flavor, small size, and long-keeping qualities makes this distinct new Squash a good home and garden variety. Fruits are smooth, silvery blue-gray, short bell-shaped and average 3 to 4 pounds per fruit. Skin of fruits is thin but hard.

Oz., 35c; ¼ lb., \$1.10; 1 lb., \$3.25, postpaid.

DELICIOUS. 103 days. Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth rind, thin but hard; flesh extremely thick, bright yellow, fine grained, dry, without fiber, of highest quality.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

GOLDEN DELICIOUS. 103 days. Valuable for canners because of high starch content and the bright red-orange color of the exterior. In shape and season practically the same as the original Delicious.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

BUTTERCUP (Turk's Cap). 110 days. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed Squash of good storage and eating qualities.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

BUTTERNUT. 90 days. A recent introduction which has become very popular in the New England states. Fruits 10 to 12 inches long with neck of about 4 inches in diameter which is solid flesh; the seed cavity is located in the lower bowl-shaped end. Skin light creamy brown, flesh yellow, fine grained and of excellent quality. Matures early and is a good keeper.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

The Four Hubbards

GOLDEN HUBBARD. 100 days. Similar to the Old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange-red; flesh deep orange, fine quality; good keeper.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

★IMPROVED HUBBARD. 105 days. The standard winter Squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine grained, thick and dry.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

★CHICAGO WARTED HUBBARD. 105 days. Similar in quality and form to the Hubbard, but fruit larger and a little later.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

BLUE HUBBARD. 105 days. A new type of Hubbard Squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell.

Oz., 25c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.



Improved
Hubbard
Squash

Standard Varieties of Tomatoes

EARLY WONDER. Is a new early BIG tomato. Smooth, mild, meaty, uniform, deep scarlet fruit bearing in 58 days from setting plants. Fruits average 6 ozs. with a peck or more to the plant. Plants medium small for 2 ft. apart planting.

Pkt., 25c; 1/2 oz., 40c; 1 oz., 75c; 1/4 lb., \$2.35; 1 lb., \$7.00, postpaid.

EARLY CHATHAM. 61 days. Medium size fruit, free from cracking, ripens early, matures quickly. Recommended for northern growing.

Oz., \$2.00; 1/4 lb., \$6.00; 1 lb., \$18.00, postpaid.

EARLIANA. 64 days. The most productive, first early red Tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet.

Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.

FIREBALL. 65 days. One of the earliest for market. Vines are small, light foliage, may be planted 1 1/2 to 2 feet apart. Fruit is bright red, uniform globe-shaped, medium size, firm and sweet.

Oz., 95c; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.

VALIANT. 67 days. An early market variety. Vines sparse and open. The fruits, weighing about 8 ounces, are smooth, deep and brilliant scarlet in color.

Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.

SIOUX or EARLY RED. 68 days. This early variety ripens from a characteristic whitish green color to deep scarlet. Vines medium size, somewhat open, with foliage of medium texture and density. Very productive. Fruit is medium size, almost globe-shaped, scarlet, of fine quality and flavor. Flesh firm with thick walls.

Oz., 95c; 1/4 lb., \$3.00; 1 lb., \$9.50, postpaid.

STOKESDALE. Certified. 70 days. A second-early scarlet fruited variety. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored.

Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.

GOLDEN JUBILEE. 72 days. Short stemmed, sturdy and compact, bearing over a long period. Fruit golden yellow, globular, thick walled, of mild flavor and good quality. Medium size.

Oz., \$1.25; 1/4 lb., \$3.75; 1 lb., \$11.00, postpaid.

BONNY BEST. Certified. 73 days. An old standard, all-purpose variety. Fruits medium large, scarlet-red, flattened globe-shape. Smooth and firm.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.

★JOHN BAER. Certified. 73 days. An early, productive, red Tomato.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.

EARLY RUTGERS. Certified. 73 days. This is an early strain and has a thick outer and inner wall of solid meat. Globe shaped, scarlet-red in color, resembling Marglobe. The Early Rutgers Tomato is in great demand for all purposes.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.

MARGLOBE. Certified. The Wilt and Nailhead Rust-Resistant Sort. 75 days. Bright red in color, of large size, almost round, and very productive.

Oz., 75c; 1/4 lb., \$2.50; 1 lb., \$7.50, postpaid.

LONGRED. 75 days. This variety produces fruit globular in shape, medium size, solid, very smooth and red. Plant is medium in size, many branches, leaves small but abundant.

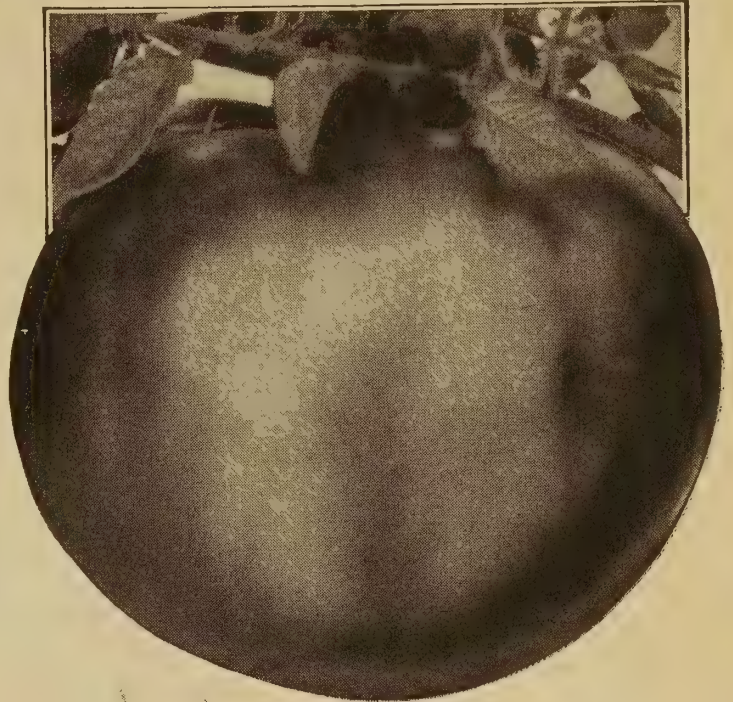
Oz., 90c; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.

WISCONSIN 55. 75 days. Large fruited, productive, second early Tomato. Fruit is slightly flattened to near-globe shape. Thick walls, meaty flesh, firm small seed cavity, scarlet-red color. Vines are medium large, spreading with fair foliage cover.

Oz., 95c; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.

PRITCHARD or SCARLET TOPPER. Certified. 75 days. The splendid, globe-shaped, smooth fruits grow to a good size and attain an attractive bright red color. Flesh firm, mild flavored, free from acidity, with no core and small seed cavity. Wilt resistant.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.



Marglobe Tomato

GLAMOUR. 75 days. A midseason maturing variety which produces CRACK-RESISTANT fruit. The Tomatoes are flattened globe-shape, smooth, and mature from a pale green to a bright red color. They ripen slowly and hold up well. The hardy plants bear good sized fruit up to the last picking.

Oz., \$1.00; 1/4 lb., \$3.25; 1 lb., \$10.00, postpaid.

DWARF STONE. 81 days. The best of the dwarf Tomatoes. Fruits large, smooth, very solid, of a deep scarlet color.

Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.

BALTIMORE CERTIFIED. 81 days. Second early and main crop variety. Deep scarlet-red in color, vigorous and very productive.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.

NEW STONE. 85 days. This variety is always dependable. Very vigorous and productive; fruits round, large, solid, smooth and deep red in color.

Oz., 70c; 1/4 lb., \$2.25; 1 lb., \$7.00, postpaid.

PONDEROSA. 85 days. A very large, purple-fruited Tomato; solid, with but few seeds, and no acid. Fine for slicing.

Oz., 95c; 1/4 lb., \$3.00; 1 lb., \$9.50, postpaid.

BEEFSTEAK. (Red Ponderosa.) 90 days. A wilt-resistant, large variety for home and market garden use. Plant is open in habit of growth, heavy. The fruit is large, flat, scarlet, rather smooth.

Oz., 90c; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.

OXHEART. 90 days. An attractively pink-skinned variety. It is exceedingly smooth and tender and almost seedless. It has that delicious mild flavor. Rich soil adds greatly to its productiveness. A late variety.

Oz., \$1.30; 1/4 lb., \$4.00; 1 lb., \$12.50, postpaid.

CLIMBING TRIP-L CROP. A climbing variety with vines growing rapidly, 10 to 18 feet high, bearing large crimson fruit, solid and meaty. Heavy producer.

1/2 oz., 85c; 1 oz., \$1.50; 1/4 lb., \$4.50, postpaid.

SAN MARZANO. (Italian Paste Tomato.) Used for preserves.

Oz., \$1.00; 1/4 lb., \$3.50; 1 lb., \$10.00, postpaid.

SMALL FRUITED TOMATOES. Used for pickles, preserves, canning, etc. Easily grown and yield well. Yellow Plum, Red Pear, Yellow Pear, and Red Cherry. Price of any of the four varieties:

1/4 oz., 30c; oz., \$1.00, postpaid. Special: One pkt. each of these four varieties for 50c, postpaid.

All prices quoted herein are subject to change without notice

Tomatoes For Forcing

SPARTAN HYBRID. This is a cross between Michigan State Forcing and Cooper's Special, and is an excellent greenhouse hybrid, a week earlier than the parents and about 20 percent more productive in weight and fruit. Color red, globular shape, medium size fruit, 5 to 6 ounces in weight, about three to pound; growing in clusters of six to eight. A meaty Tomato, small seed cavity. Vine is more open, giving very uniform ripening of fruit. Being extra vigorous in growth, it is more resistant to both wilt and disease. Seed supply sold out until new crop harvest September, 1960. Suggest Michigan-Ohio for present needs.

NORTHERN HYBRID. This is a cross between Michigan State Forcing and Sutton's Best of All, and is an ideal greenhouse hybrid for northern growing, especially in CANADA and northern United States. In productivity it is similar to Spartan Hybrid, but is more vigorous in growing, particularly in dark fall and winter weather which is prevalent in the North. Vine is open, permitting uniform ripening. Fruit is red in color, globular in shape, but is smaller, 4 to 5 ounces of solid fruit in clusters of ten to twelve. More resistant to wilt and disease on account of its vigorous growth.

MICHIGAN-OHIO HYBRID. A new F₁ Tomato for greenhouse production. It has been carefully evaluated in comparative tests by Dr. S. H. Wittwer of the Michigan State University, for 3 years, where it has consistently proven superior to four of the leading varieties commonly grown in the Midwest and Canada. The plant is large, vigorous and indeterminate, being easily pruned and trained to a single stalk. Because of its prolific fruiting on the lower clusters, this hybrid demands abundant water and nutrient supply after the first clusters have set fruit so that it may continue production at a high level, to the end of the crop. The fruit is



red in color, globular in shape, and remarkably uniform in size. It is of excellent quality with a good interior color, thick outer walls and is comparable to Michigan State Forcing for firmness. In this respect it is superior to Spartan Hybrid. Its ability to set fruit in dark weather is also superior to Spartan Hybrid and tests at Michigan State University as well as in commercial greenhouses have proven its ability to out-produce those varieties commonly in use. The most outstanding characteristic of this new Hybrid is its extremely high resistance to common fusarium wilt. In color on inside front cover.

1/32 oz. (approx. 250 seeds), \$3.00; 1/16 oz. (approx. 500 seeds), \$6.00; 1/8 oz. (approx. 1000 seeds), \$10.00; 1/4 oz., \$15.00; 1/2 oz., \$27.50; 1 oz., \$50.00, postpaid.

F₂ Varieties From Hybrids

WHAT IS AN F₂ TOMATO? An F₂ Tomato is the second generation of an F₁ Hybrid. There are many advantages of an F₂ over the usual open pollinated type, such as a longer harvest, greater yield per acre, higher quality, more disease resistance, and more crack resistance.

TOMATO FOREMOST E-21. 73 days. Fruits are almost globular, deep scarlet-red, larger than Stokesdale and just about as large as Rutgers. Resistant to cracking and blossom-end scars. Plants are extremely vigorous and heavily productive.

1/4 oz., 80c; 1/2 oz., \$1.25; 1 oz., \$2.50; 1/4 lb., \$9.00; 1/2 lb., \$17.50; 1 lb., \$35.00, postpaid.

STOKESCROSS No. 1. 70 days. A new F₂ of a hybrid, producing fruits averaging 5 to 6 ounces. A large proportion of the crop matures in the extra early season. For the early market the quality is superb.

1/4 oz., \$1.25; 1/2 oz., \$2.00; 1 oz., \$3.75; 4 ozs., \$10.00, postpaid.

***BURPEE "BIG BOY" (R) GIANT HYBRID.** 78 days. Fruit is the largest of a true first generation F₁ Hybrid. Many weigh one pound and more, some two pounds and over. Perfectly smooth, firm, scarlet-red, thick walled fruit with bright red meaty flesh of fine flavor and excellent quality. Valuable BIG Tomato for the home and market grower, especially roadside sales.

1/16 oz., \$2.85; 1/8 oz., \$4.50; 1/4 oz., \$8.50; 1 oz., \$30.00, postpaid.

STOKESCROSS No. 4. 75 days. This F₂ of a hybrid sets readily and has a fast maturity. Fruits averaging 5 ounces. Vine is lighter than Rutgers and is recommended for the northern tier of states and Canada. Free from cracking and an excellent quality. Used for marketing and processing.

1/4 oz., \$1.25; 1/2 oz., \$2.00; 1 oz., \$3.75; 4 ozs., \$10.00, postpaid.

STOKESCROSS No. 6. 78 days. A new F₂ of a hybrid introduced in 1956 by the Stokes Seed Co. Fruits 5 1/2 ounces, about 80% crack resistant and has shown some resistance to fusarium wilt.

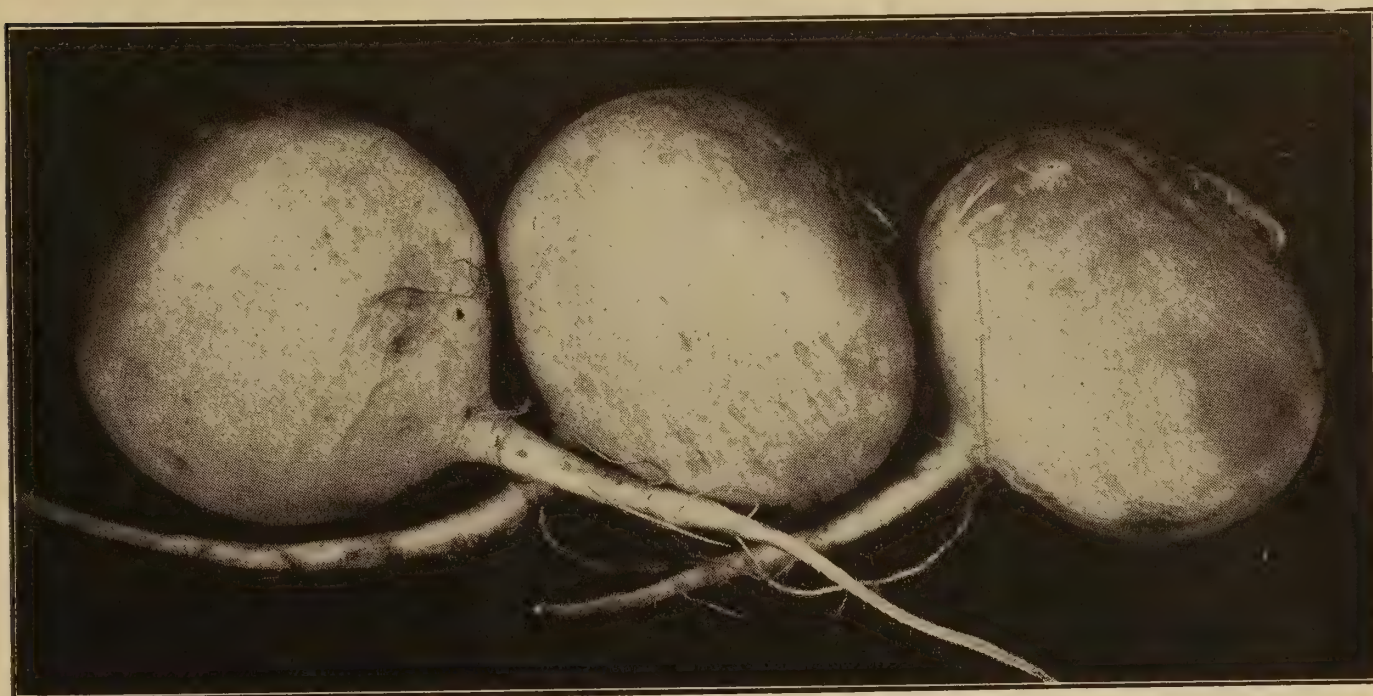
1/4 oz., \$1.25; 1/2 oz., \$2.00; 1 oz., \$3.75; 4 ozs., \$10.00, postpaid.

EARLY HY-CROSS HYBRID. 65 days. Earlier in maturity than Earliana or Valiant. Medium large, high quality fruit, very smooth, dark red in color, globular in shape. Flesh is solid and of mild flavor. Vine indeterminate. Recommended for central, eastern and northern United States and other areas of short growing season.

1/8 oz., \$2.50; 1/4 oz., \$4.75; 1/2 oz., \$9.00; 1 oz., \$17.00, postpaid.

Turnips

CULTURAL DIRECTIONS. One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.



Purple Top White Globe Turnip'

★**PURPLE TOP WHITE GLOBE.** 55 days. Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive Turnip and best seller.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

GOLDEN BALL. 65 days. Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

COW HORN. 65 days. Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

YELLOW GLOBE. 75 days. A round, smooth, light yellow variety of medium size and good quality.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

EXTRA EARLY WHITE MILAN. 40 days. The earliest bulbs, small, clear white, and flat. One of the best for early bunching.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

SEVEN TOP. 45 days. For Turnip greens. Extremely hardy foliage Turnip for table or forage use. Crown sends up numerous shoots which are excellent for greens.

Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.

PURPLE TOP STRAP LEAVED. 45 days. A very early, flat variety, medium size; purple or red above ground and white below.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

Aromatic, Medicinal and Pot Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.

ANISE. (hA). 14 to 18 inches high. Seeds used for flavoring bread, cake, cookies and candy.

BALM. (hP). 1½ ft. high. Leaves have a lemony, minty fragrance and give a fine flavor to fruit drinks.

BASIL (Sweet). (hA). 1 ft. high. Spicy, flower-like tasting leaves, delicious in green salads, Tomato and cheese dishes and soups.

CARAWAY. (hB). 1 to 2 ft. high. Seeds used for flavoring cake, cookies, bread, cheese and baked Apples.

CELERIAC. Large Smooth Prague. 110 days. Turnip rooted Celery.

Oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

CHERVIL. (hA). 10 inches high. Leaves used as Parsley for flavoring and garnishing.

CHICORY. Used extensively for salads.

CHICORY (French Endive). Used extensively for salads.

CHIVES. See page 20.

DANDELION. (P). Low growing. Used for salads.

DILL. See page 15.

FLORENCE FENNEL. (A) 2½ ft. high. Sweet. Fresh, tender stems eaten raw like Celery or in salads.

HOREHOUND. (P). 14 inches high. Leaves and juice of flowering tops flavor cough syrups and candy.

HYSSOP. (hP). 1½ ft. high. Often planted near bee hives to give a fine taste to honey.

LAVENDER. (P). 2 ft. high. (Spike Lavender). Dried flowers used to scent linens.

MARJORAM, SWEET. (A). 2 ft. high. Young, tender leaves good in salads and to flavor soups.

RUE. (hP). 16 inches to 2 ft. high. Bitter herb to be used sparingly for seasoning.

SAFFRON. (hA). 1 to 3 ft. high. The yellow, thistle-like flowers picked while in full bloom, are used for coloring and flavoring.

SAGE. (P). 1 to 2 ft. high. Most extensively used of any herb. Very aromatic. 1 oz., \$1.00.

SUMMER SAVORY. (hA). 8 to 10 inches high. Leaves and flowering tops are popular in dressings, boiled with Peas and snap Beans, used with other herbs in salads and as flavoring for many meat dishes.

THYME. (hP). 8 to 10 inches. Sharp aromatic flavor good in combination with other herbs in salads, sandwiches, etc.

WORMWOOD. (hP). 3 to 5 ft. high. Next to Rue the bitterest of all herbs, chiefly used in medicines.

EXPLANATION:

h hardy; A annual; P perennial; B biennial.

All of the above, unless otherwise priced, come in packets only at 15c per pkt.

PLANTERS GUIDE

A vital question that is frequently asked. How large is an acre of land? Let's answer it right here.

5 yards by 968 yards.
4840 square yards.
60 feet by 726 feet.
110 feet by 396 feet.

300 feet by 145.2 feet.
43,560 square feet.
From the above figures, you can figure any size piece of land.

Variety	Seed for 50 Feet	Seed for 1 Acre Lb.	Rows Apart Feet	Plants Apart in Rows Inches	Planting Depth Inches	Days to Yield
Asparagus	1/2 oz. 30 plants	.....	2 1/2	20	6	2 yrs.
Beans, Bush	4 ozs.	60 to 75	2 to 2 1/2	3 to 4	1 1/2	50 to 70
Beans, Pole	4 ozs.	30 to 35	3 to 4	9 (or hills)	1 1/2	65 to 80
Lima Beans, Bush	4 ozs.	30 to 50	2 to 2 1/2	3 to 4	1 1/2	65 to 75
Lima Beans, Pole	4 ozs.	30 to 40	3 to 4	9 (or hills)	1 1/2	80 to 90
Beet	1/2 oz.	4 to 6	1 1/2 to 2	3 to 4	1 1/2	60 to 75
Swiss Chard	1/2 oz.	.....	2	15	1 1/2	50 and on
Broccoli	1 pkt.	1/4	2	18	1/4	70 to 80
Brussels Sprouts	1 pkt.	1/4	2	18	1/4	70 and on
Cabbage, Early	1 pkt.	1/4	2	12	1/4	65 to 75
Cabbage, Late	1 pkt.	1/4	2	18	1/4	80 to 100
Chinese Cabbage	1 pkt.	2	2	12	1/4	75 to 85
Carrot	1 pkt.	2 to 3	1 1/2	3	1/4	60 to 75
Cauliflower	1 pkt.	1/4	2	18	1/4	55 to 65
Celeriac	1 pkt.	1/4	2	4	1/8	90 to 120
Celery	1 pkt.	1/4	2 to 3	5	1/8	120 to 150
Collards	1 pkt.	.....	2 1/2	24	1/4	90 and on
Sweet Corn, Early	1 oz.	8 to 10	2 1/2	9	1	70 to 80
Corn, Main Crop	1 oz.	8 to 10	3	12	1	80 to 95
Cucumber	1 pkt.	2	4	24	3/4	60 to 70
Eggplant	1 pkt.	1/4	3	30	1 1/2	70 to 85
Endive	1 pkt.	4 to 5	1 1/2	9	1/4	70 to 80
Kale	1 pkt.	4 to 5	2 1/2	24	1/4	70 to 80
Kohl-rabi	1 pkt.	4 to 5	2	8	1/4	55 to 65
Leek	1 pkt.	3 to 4	1 1/2	6	.....	120 to 150
Lettuce, Leaf	1 pkt.	3	2	12	1/4	45 to 50
Lettuce, Head	1 pkt.	3	2	12	1/4	50 to 70
Muskmelon	1 pkt.	3 to 4	5	48	1	80 to 100
Mustard	1 pkt.	4	2	9	1/4	60 to 75
Okra	1/2 oz.	8	3	15	1	50 to 60
Onion, Seed	1 pkt.	3 to 4	1 1/2	3 to 4	1 1/2	90 to 100
Parsley	1 pkt.	4	1 1/2	4	1/4	85 to 100
Parsnip	1 pkt.	4	1 1/2	4	1/2	80 to 100
Peas	1/2 lb.	90 to 180	2 to 3	1 to 2	1	60 to 80
Pepper	1 pkt.	1/4	2 1/2	24	.....	65 to 80
Pumpkin	.....	3 to 4	8	60	1	110 to 130
Radish	1 pkt.	10 to 12	1	1 to 2	1 1/2	25 and on
Rhubarb	10 plants	2 to 3 for plants	4	48	1/4	2 to 3 yrs.
Salsify	1 pkt.	.....	1 1/2	2	1/4	140 to 180
Spinach	1 pkt.	15 to 25	1 1/2	6	3/4	40 to 50
Spinach, N. Z.	1 pkt.	.....	3	20	1	70 to 80
Squash, Bush	1 pkt.	6	4	36	1	55 to 65
Squash, Vining	1 pkt.	4	6	60	1	65 to 120
Tomato	1 pkt.	1/4	3 to 4	36	1 1/2	75 to 90
Turnip	1 pkt.	2 to 3	1 1/2	4 to 6	1/4	50 to 80
Rutabaga	1 pkt.	1 to 2	2	6	1/4	80 to 90
Watermelon	.....	3 to 4	8	96	3/4	75 to 95

NUMBER OF PLANTS TO THE ACRE AT GIVEN DISTANCES

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840
12 x 3 in.	174,240	30 x 1 in.	209,088	42 x 12 in.	12,446
12 x 12 in.	43,560	30 x 6 in.	34,848	42 x 24 in.	6,223
16 x 1 in.	392,040	30 x 12 in.	17,424	42 x 36 in.	4,148
18 x 1 in.	348,480	30 x 16 in.	13,068	48 x 12 in.	10,890
18 x 3 in.	116,160	30 x 20 in.	10,454	48 x 18 in.	7,790
18 x 12 in.	29,040	30 x 24 in.	8,712	48 x 24 in.	5,445
18 x 18 in.	19,360	30 x 30 in.	6,970	48 x 30 in.	4,356
20 x 1 in.	313,635	36 x 3 in.	58,080	48 x 36 in.	3,630
20 x 20 in.	15,681	36 x 12 in.	14,520	48 x 48 in.	2,723
24 x 1 in.	261,360	36 x 18 in.	9,680	60 x 36 in.	2,901
24 x 18 in.	15,520	36 x 24 in.	7,260	60 x 48 in.	2,178

Approximate number of feet of row per acre at given distances:

Distance between rows:	18 inches	24 inches	30 inches	36 inches	42 inches	48 inches
Feet of row:	29,010	21,758	17,427	14,526	12,439	10,853



FLOWER SEEDS

General Cultural Directions and Suggestions

Annuals . . .

Annual flowers are those which are seeded and bloom in one seasonal year and are grown only from seed.

Some of the varieties are started indoors during the late winter and early spring months for transplanting into the open after danger of frost has passed.

Suggested preparations for inside growing of these seedlings are as follows: In seed boxes or other containers, 2 inches deep, place 1 inch of rough material such as Peat Moss, Vermiculite, to insure drainage. The next layer of 1 inch may be finely sifted top soil or a composition of leaf mold, sand and compost. Press into a firm bed and keep well moistened for 24 hours.

Sowing the seed will vary somewhat with the various annuals. Real fine seed such as Petunias, Ageratum, Alyssum, etc., may be mixed with clear sand and scattered broadcast over the surface of the prepared soil. Cover lightly with fine soil, approximately $\frac{1}{8}$ inch and press firmly, then

sprinkle lightly. Afford light and sufficient ventilation to keep down the percentage of "damping off." Hold soil temperature at 70 degrees for 2 to 3 days to a week, and after the seedlings appear, maintain an even temperature at 65 degrees.

When the young seedlings are about $\frac{3}{4}$ -inch long or more transplant, rooting in carefully in other boxes of similarly prepared soil. Place about 1 inch apart each way. It may be necessary to provide some protection from direct sun and do not let the seed or seedlings suffer from lack of moisture.

About a week before transplanting outside, "harden off" the plants by taking the boxes outdoors for the daytime hours and cover or protect at night during this period before transplanting to the open ground.

Many annuals can be sown direct in the outside beds after danger of frost is past. Some annuals are classed as hardy annuals and reseed from year to year. Be careful not to sow any seed too deep. The finer seed requires less covering than the coarse.

All of our flower seeds will be packeted at 15c per packet unless otherwise priced. We cannot sell or packet anything smaller.



Ageratum, Midget Blue

Alyssum (A) (SWEET ALYSSUM)

(60,000 seeds per oz.)

Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

LITTLE GEM. Erect; white.

1/4 oz., 30c; 1 oz., \$1.00, postpaid.

VIOLET QUEEN.

1/4 oz., 40c; 1 oz., \$1.50.

CARPET OF SNOW. See colored insert, page 36.

1/4 oz., 35c; 1 oz., \$1.25.

SNOW CLOTH. Purest white, spreading and dwarf.

1/4 oz., 30c; 1 oz., \$1.00.

PROCUMBENS, ROYAL CARPET. The spreading compact habit and rich violet-purple color should be an excellent companion to Carpet of Snow. Height 3 inches; spread 12 inches.

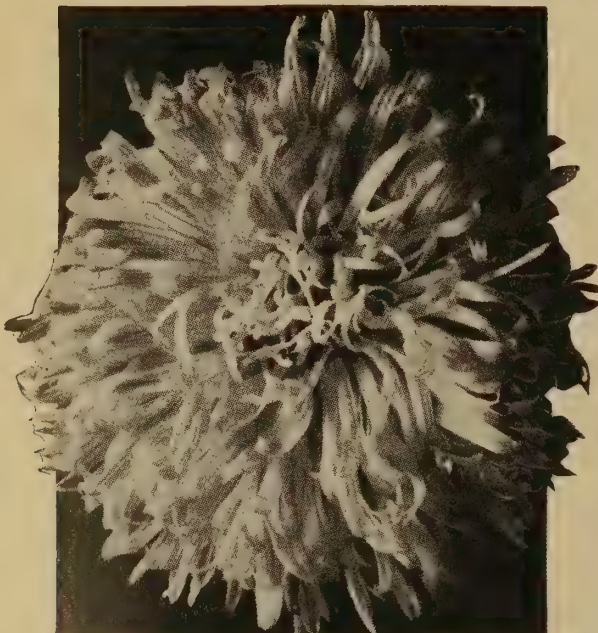
1/4 oz., 90c; 1 oz., \$2.50, postpaid.

PINK HEATHER. 1959 All-America Medal Winner. Blooms a soft lavender-pink, deepening its shade of color in cool areas and ranges to delicate pinks in hot summer. Plant is vigorous in growth, 6 inches, and the flowers are very hardy, carrying well into the fall. See color insert, page 37.

1/8 oz., \$1.00; 1/4 oz., \$1.65; 1 oz., \$5.00, postpaid.

Alyssum (P)

SAXATILE COMPACTUM. (Basket of Gold.) 9 inches high. Blooms in May and June, producing masses of golden flowers very early. 1/4 oz., 40c; 1 oz., \$1.25, postpaid.



Giant Crego Aster

FLOWER SEED CODE: (A) annual; (B) biennial; (P) perennial. Number of seeds per ounce under all items are approximate.

ABRONIAS (Sand Verbena). (A)

Pkt., 25c.

Ageratum (FLOSSFLOWER) (A)

(214,000 seeds per oz.)

One of the best summer blooming plants. They are rapid growers; early and constant bloomers.

BLUE CAP. Selected. 6 inches. Definitely more dwarf, more compact in habit with small leaves. Bright, deep, rich lavender-blue.

1/4 oz., \$1.20; 1 oz., \$3.60, postpaid.

MIDGET BLUE. Dwarf, compact, rich blue.

1/8 oz., 80c; 1/4 oz., \$1.35; 1 oz., \$4.50, postpaid.

DWARF GIANT BLUE TETRA (Blue Mink). This new tetraploid Ageratum bears giant trusses of fluffy powder-blue flowers on strong, husky plants. Plants grow 5 or 6 inches, are upright, yet compact and even in habit. Ideal for pots, edging or borders.

1/8 oz., 80c; 1/4 oz., \$1.35; 1 oz., \$4.50, postpaid.

BLUE BEDDER. Dwarf.

Pkt., 25c.

FAIRY PINK. Large, dark green leaves, smothered with small feathery soft salmon-rose-pink flowers. Plant 4 inches tall.

1/8 oz., 80c; 1/4 oz., \$1.35; 1 oz., \$4.50, postpaid.



Alyssum Saxatile Compactum (Perennial)

Wilt-Resistant Asters (A)

(12,000 seeds per oz.)

GIANT CREGO. The flowers are of immense size, usually from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. See color insert, page 35. Mixed colors.

1/4 oz., 50c; 1 oz., \$1.80; 4 ozs., \$5.75.

QUEEN OF THE MARKET. Best early Aster, usually in full bloom two weeks before most others begin to blossom. Graceful spreading habit. Mixed, all colors.

1/4 oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.25.

EARLY BEAUTY. Early flowering, mixed colors.

1/4 oz., \$1.00; 1 oz., \$3.00, postpaid.

HEART OF FRANCE. Dark ruby-red variety; large double flowers, beautiful type. Most outstanding Aster.

1/4 oz., 80c; 1 oz., \$2.50; 4 ozs., \$7.50.

POWDERPUFF. (New). A mixture of all colors, including shell-pink, azure, lavender and various blues as well as many other colors. A new bouquet type with 2 ft. V-shaped plants, a foot across topped with 15 to 20 fully double puffball cut flowers. In color on inside back cover.

1/4 oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.50, postpaid.

GIANT CALIFORNIA SUNSHINE. Flowers large, with loosely placed outer petals contrasting with creamy yellow or blue centers, giving a lazy effect which is quite delightful. The rogues and off types bloom first and the Giant Sunshine later. Mixed colors.

1/4 oz., \$1.00; 1 oz., \$3.00, postpaid.

AMERICAN BRANCHING GIANT. Mixed colors.

1/4 oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.50, postpaid.

DOUBLE AMERICAN BRANCHING. Mixed.

Pkt., 15c.

BABY'S BREATH. (A). *Gypsophila*. Large flowering pure white. Pkt., 25c.

BACHELOR BUTTON. (A.) (*Centaurea*). Cyanus mixed. Pkt., 25c.

Jubilee Gem. Pkt., 25c.

Red Boy. Pkt., 25c.

BELLS OF IRELAND. (7000 seeds per ounce.) (A.) Graceful 2-foot branching stems are so surrounded by 2-inch flowers there is little room for leaves. The bell-shaped calyx is green and delicately veined, containing the white corolla. Both curious and beautiful. Lasts well when cut.

1/16 oz., 30c; 1/4 oz., 75c; 1 oz., \$2.00, postpaid.

BLUE LACE FLOWER. (A.) *Coeruleus*. Blue. Pkt., 15c.

Calendula (POT MARIGOLD) (A)

(15,000 seeds per oz.)

ORANGE KING. The outer petals slightly imbricated, while those in the center are curved like those of the Peony. Color glowing orange.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$2.50.

BALL'S GOLD. It has fine stems, immense double flowers of a brilliant glistening orange.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$2.50.

SUNSHINE. Pkt., 15c

Canterbury Bells (CAMPANULA) (B)

(125,000 seeds per oz.)

CALYCANTHEMA (Cup and Saucer). Double Mixed. 2 ft. June to August. Mixed colors.

1/4 oz., 50c; 1 oz., \$1.40, postpaid.



Carnations

Carnations (A)

(15,000 seeds per oz.)

MARGUERITE. Double Mixed.

1/4 oz., 75c; 1 oz., \$2.25; 4 ozs., \$6.50.

CHABAUD GIANT MIXED.

1/4 oz., 75c; 1 oz., \$2.50; 4 ozs., \$8.00, postpaid.

GRENADEIN. Dwarf, 15 inches. Choice mixture. Early Vienna type. Nice range of colors.

1/8 oz., 65c; 1/4 oz., \$1.25; 1 oz., \$4.00.

GRENADEIN. Dwarf, 15 inch. Scarlet (cardinal-red).

1 oz., \$4.00; 4 ozs., \$11.50.

CARDINAL CLIMBER. (A). Pkt., 25c.

Castor Bean (RICINUS) (A)

(30 seeds per oz.)

Decorative plant with fern-like foliage, giving fine sub-tropical effect; even a single plant forms a pyramid of leaves.

ZANZIBARIENSIS. Leaves vary in color from light green to purplish red.

10 seeds, 10c; 1 oz., 40c; 1/4 lb., \$1.25; 1 lb., \$4.25, postpaid.

CENTAUREA, IMPERIALIS. (A)

Sweet Sultan. Pkt., 25c.

CHINESE FORGET-ME-NOT. (A)

Firmament. Pkt., 25c.

CLARKIA. Double Mixed. (A)

Pkt., 25c.

Cypress Vine. (A)

Pkt., 25c.

Cleome (SPIDER FLOWER) (A)

(125,000 seeds per ounce)

GIANT PINK QUEEN. Large pink heads.

1/8 oz., 35c; 1/4 oz., 55c; 1 oz., \$1.65, postpaid.

Balsam (LADY SLIPPER) (A)

(2,400 seeds per oz.)

DOUBLE CAMELLIA-FLOWERED MIXED. An old favorite garden flower, producing gorgeous masses of beautiful, colored, double flowers throughout the season.

1/4 oz., 30c; 1 oz., 90c; 4 ozs., \$2.50.

Dwarf Bush Balsam

Flowers form a pretty rich bouquet of double rose-like flowers about foliage. In separate colors and mixed.

CINNABAR (brilliant red); **ROSE; WHITE REFLECTED ROSE; WHITE; SCARLET; TORCH** (dwarf vermilion-red).

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.25, postpaid.

SPECIAL MIXTURE. All of the above colors in a well balanced mixture or in straight colors as wanted.

1/4 oz., 75c; 1 oz., \$1.75; 4 ozs., \$5.75, postpaid.

Candytuft (A)

(10,000 seeds per oz.)

UMBELLATA, DWARF FAIRY MIXED. Half the height of the standard varieties, with a color range of crimson, flesh, lilac, rose and white.

1/4 oz., 25c; 1 oz., 80c, postpaid.

GIANT HYACINTH FLOWERED, WHITE PINNACLE.

Bouquet type. Grows 2 feet tall with large, pure white spikes; excellent for cutting.

1/4 oz., 35c; 1 oz., \$1.00.

Celosia (COXCOMB) (A)

(30,000 seeds per oz.)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

CRISTATA, EMPRESS. (Dwarf Crested.) Crimson combs, dark foliage. 12 inches.

1/8 oz., 40c; 1/4 oz., 75c; 1 oz., \$2.25, postpaid.

CRISTATA, TOREADOR. 16 inches. Bright red, with light green foliage. See colored insert, page 38.

1/16 oz., 55c; 1/8 oz., \$1.00; 1/4 oz., \$1.65; 1 oz., \$5.00, postpaid.

PLUMOSA, GOLDEN FLEECE. Clear golden yellow feathery spikes carried on good stems giving a magnificent airy appearance. A new GIANT plumosa type, which should be excellent for pots or garden use. See colored insert, page 38.

Pkt., 40c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$3.00.

PLUMOSA, DWARF FIERY FEATHERED. A standard variety. 12 inches.

1/8 oz., 40c; 1/4 oz., 75c; 1 oz., \$2.00, postpaid.

FEATHERED, MIXED (Pampas Plume).

Pkt., 25c.

Coleus (FOLIAGE PLANTS) (A)

(3,500 seeds per 1/32 oz.)

RAINBOW MIXTURE—GREENHOUSE GROWN.

This seed will increase the brilliance of color, and have a greater percentage of brighter shades. In color on inside back cover.

1/32 oz., \$1.25; 1/16 oz.,

\$2.00; 1/8 oz., \$3.50; 1/4

oz., \$6.00, postpaid.



Coleus

Columbine

(AQUILEGIA) (P)

(17,500 seeds per oz.)

MRS. SCOTT ELLIOTT'S STRAIN.

1/8 oz., 75c; 1/4 oz., \$1.25, postpaid.

Dimorphotheca (A)

(10,000 seeds per oz.)

DIMORPHOTHECA (African Daisy). Glistening white, 6 to 8 in.

1/4 oz., 90c; 1 oz., \$3.00, postpaid.

AURANTIACA (Orange Daisy). Glossy golden orange flowers. 12 inches.

1/4 oz., 80c; 1 oz., \$2.75, postpaid.



Delphinium

Forget-Me-Not

(MYOSOTIS) (B)

(42,000 seeds per oz.)

They are considered among the best spring flowers. They prefer moist, cool soil, and will bloom freely in fall and early spring.

VICTORIA. Indigo-blue. 8 inches.

VICTORIA. Sky-blue. 8 inches.

VICTORIA WHITE. Dwarf.

VICTORIA ROSEA. Pink.

Pkt., 15c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$3.75.



Forget-Me-Not—Myosotis

DELPHINIUM (P)

(Perennial Larkspur)

(10,000 seeds per ounce)

PACIFIC GIANT HYBRIDS. 5 feet tall, heavy spikes. The plants are 60 to 65% mildew resistant. The flowers are immense size, tightly set on straight stems, do not shatter and are fine for cut flowers. In separate colors and mixed.

BLACK KNIGHT. Very dark blue.

BLUE BIRD. Clear medium blue, white bee.

BLUE JAY. Medium blue with black bee.

CAMELIARD. Pure lavender.

GALAHAD. Huge clear white.

GUINEVERE. Light pinkish lavender with white bee.

KING ARTHUR. Royal violet with white bee.

PERCIVAL. With contrasting black bee.

SUMMER SKIES. Light blue with white bee.

1/8 oz., \$2.00; 1/4 oz., \$3.75; 1 oz., \$12.00.

PACIFIC HYBRIDS MIXED COLORS.

1/8 oz., \$1.70; 1/4 oz., \$3.25; 1 oz., \$10.00.

Cosmos (A)

(5,500 seeds per oz.)

MANDARIN. A new strain of this old garden favorite. It is the first in a new class of Cosmos with brilliant orange flowers strongly double with as many as 4 petals. The plants excel in unusually heavy tenacious foliage.

1/4 oz., 50c; 1/2 oz., 95c; 1 oz., \$1.75, postpaid.

SENSATION MIXED. The most satisfactory class of Cosmos to grow for cut-flower purposes. Extra large flowered, extra early.

1/4 oz., 40c; 1 oz., \$1.25.

DAHLIA (A)

UNWIN'S DWARF HYBRIDS. 1/4 oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.

Double Daisy

(BELLIS PERENNIS) (P)

(12,500 seeds per oz.)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture.

Pkt., 15c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$3.75.



Unwin's Dwarf Hybrid Dahlias



ZINNIA, CALIFORNIA GIANTS

A Beautiful Vase Flower

Many rich colors carefully blended make this originator's strain popular as a vase flower. See description and price on page 49.



PETUNIA, FAIRYLAND

F₁ Hybrid Petunias are proving to be the most popular bedding flowers. This soft colored variety is lovely in color shade and attractive in shape. For further description and prices see page 43.



ASTERS, GIANT CREGO MIXED

We recommend this wilt resistant strain for Aster lovers. Charming color combinations and hardy growing. For full description and prices see page 32.



MARIGOLD, COLOR MAGIC

For brilliance in color and for compact, sturdy growth, this Marigold is particularly outstanding in beds and borders. A complete description and prices are listed on page 41.



ALYSSUM, CARPET OF SNOW

Sweet Alyssum is the old favorite border flower and Carpet of Snow offers a low spreading type of white border, desired for color accent and sweet fragrance. Description and prices listed on page 32.



SALVIA, ST. JOHN'S FIRE

An excellent colorful 12-inch dwarf Salvia for beds and borders. Grows well in shade and semi-shade. Showy red spikes. See page 46 for prices.



ALYSSUM, PINK HEATHER

A new color added to the Alyssum family last year. Drought resistant and colorful. See page 32.



MARIGOLD, CRACKERJACK

The large attractive flowers in full range of color from light yellow through deep orange and growing on 2 to 2½ feet tall, sturdy stems make this the leader in tall, large, double Marigolds. See page 40.

PETUNIA, CARNIVAL

Truly a carnival of color in this preferred F₂ mixture. Over 23 different shades, which last through the hot weather. Prices listed on page 44.



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Grand Rapids Growers Low Cost, Colorful BEAUTY with ANNUALS

NEW PETUNIA, MAESTRO

(NEW.) A new F₁ Hybrid Grandiflora Petunia offered by Pan American this year. Consult page 42 for price and order early.



DWARF PHLOX, TWINKLE

This charming little star-twinkling Phlox is one every flower lover should have for either a bed or border. Listed on page 45.



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PETUNIA, GLITTERS

An outstanding F₁ Hybrid that has proven its own value for color and marking as well as dwarf, compact habit of growth. Brightens up yard and garden. Order from page 43 where prices are listed.



MARIGOLD, LEMONDROP

For true lemon-yellow color, large double flowers, rich green foliage, this dwarf Marigold is in a class by itself. Find it described and priced on page 41.



ZINNIA, LILLIPUT

No flower garden is complete without this sweet petite flower of many attractive colors. Does not grow too tall, yet the stems are of sufficient length for a vase flower. We refer you to page 49 for further description.



MARIGOLD, DWARF DOUBLE SPRY

Most widely grown of the dwarf French Marigolds. Our stock has sharp colors and rich green foliage. Prices on page 41.



MARIGOLD, BUTTERBALL

This one is a soft butter-color-yellow, fully double and sturdy of growth habit. Further description and prices on page 41.



CELOSIA, GOLDEN FLEECE

A popular Celosia with colorful golden feather spikes for a special border or bed. For full description and prices see page 33.

CELOSIA CRISTATA, TOREADOR

This one has a crimson crested flower and is very colorful. Suggested for borders or beds. Listed on page 33.



Four O'clock(MIRABILIS) (A)
(350 seeds per oz.)**MARVEL OF PERU.** Mixed colors. 1 oz., 40c; 1/4 lb., \$1.30.**FOXGLOVE.** (Digitalis). Pkt., 25c.**GEUM.** Double scarlet. Pkt., 25c.**GOURDS****LARGE mixed.****SMALL ORNAMENTAL mixed.****SMALL ORANGE.****SMALL WARTED.****BI-COLORED PEAR.**

1/4 oz., 30c;

1 oz., 80c.

HELIOTROPE. Dark varieties mixed. Pkt., 25c.**HESPERIS** (Sweet Rocket). Purple or white. Pkt., 25c.**HIBISCUS.** Pkt., 25c.**HELICHRYSUM**(STRAWFLOWER) (A)
(36,000 seeds per oz.)

An ornament to the garden when growing and are prized everywhere for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place.

MIXED, ALL COLORS. 1/4 oz., 50c; 1 oz., \$1.40; 4 ozs., \$4.25.**IMPATIENS** (A)

(20,000 seeds per oz.)

An easily grown annual recommended for bedding. Does well under shady conditions. Blooms heavily from midsummer until killing frost. Excellent for potting.

BEAUTY OF KLETTGAU. Dwarf, 6 inches. Brilliant fire-scarlet-red, changing to deep salmon-orange. Compact plant with light green leaves, very free flowering.

1/32 oz., \$2.50; 1/16 oz., \$4.00.

NANA CARMINE. Dwarf, 6 inches. 1/32 oz., \$2.50; 1/16 oz., \$4.00.

DWARF VARIETIES CHOICE MIXED. Height 6 inches. An excellent mixture of many shades, flowers abundantly.

1/32 oz., \$2.50; 1/16 oz., \$4.00.

SULTANI. (20,000 seeds per oz.) Bright rose, 18 inches tall.

1/32 oz., 65c; 1/16 oz., \$1.10; 1/8 oz., \$1.90.

HOLSTII. (55,000 seeds per oz.) Bright vermilion, 18 inches tall.

1/32 oz., 65c; 1/16 oz., \$1.10; 1/8 oz., \$1.90.



Lobelia

Four O'clock



Larkspur

Hollyhocks (P)

(3,800 seeds per oz.)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 feet.

DOUBLE MIXED. Double and semi-double.

Pkt., 15c; 1/4 oz., 75c.

HOLLYHOCK. Indian Spring. Pkt., 25c.**ICELAND POPPY.** Gartford Mixed. Pkt., 25c.**LANTANA.** Pkt., 25c.**Kochia** (A)

(MEXICAN FIRE BUSH)

The light green, pyramidal 2 1/2- to 3-foot bushes, close and compact, turn beautiful deep red in autumn.

1/4 oz., 20c; 1 oz., 60c, postpaid.

Larkspur (A)

(8,700 seeds per oz.)

The graceful spikes of bloom are much valued for vases. They continue long in bloom.

GIANT IMPERIAL MIXED. 3 feet. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate color.

1/4 oz., 45c; 1/2 oz., 85c; 1 oz., \$1.50; 4 ozs., \$4.50.

REGAL VARIETIES. Formula Mixed. Retains desirable height and basal branch habit of the Giant Imperials, but has Delphinium-like florets on thick long spikes. Vigorous and early, the finest Larkspur on the market today.

1/4 oz., 45c; 1/2 oz., 85c; 1 oz., \$1.50; 4 ozs., \$4.50, postpaid.

SUPER MAJESTIC MIXED. Pkt., 15c.**MAJESTIC ROSE-PINK.** Pkt., 25c.**Lobelia** (A) (CRYSTAL PALACE)

(700,000 seeds per oz.)

Compact. A fine variety, producing four-inch plants with dark bronzy green foliage and dark blue flowers.

1/16 oz., 35c; 1/4 oz., \$1.00.

LAVENDER. Pkt., 25c.**LUNARIA.** Biennis. Pkt., 25c.**LUPIN.** Perennial Mixed. Pkt., 25c.

Marigolds

(TAGETES) (A)
(10,000 seeds per oz.)

MARIGOLD, SPUN GOLD. (NEW.) All-America selection for 1960. Extreme earliness, long season, abundance of bloom, uniformity in height, plant habit and flower form as well as the bright display of color all combine to make this new Marigold a popular garden variety. In color on back cover.

1/4 oz., \$1.75; 1/2 oz., \$3.00; 1 oz., \$5.25;
4 ozs., \$17.50.

Cupid Marigolds

An odorless foliated group with dwarf, compact habits, good sized flowers, Chrysanthemum-like in form, completely covering the plant. Recommended for edging, border, pots and combinations. 6 in. plant.

**CUPID PRIMROSE CUPID GOLDEN
CUPID ORANGE**

CUPID MIXED. A good range of colors including the above.

Prices of any of the separate colors or the mixture:
1/8 oz., 70c; 1/4 oz., \$1.25; 1 oz., \$4.00.

Carnation-flowered

Loosely petaled flowers, 3 inches or more across, borne on plants generally 2 to 2 1/2 ft. high.

GUINEA GOLD. 2 to 2 1/2 feet. An unusual type of Marigold, color orange flushed with gold. Nearly all flowers are double or semi-double and their odor is less pungent than that of other Marigolds.

1/4 oz., 40c; 1 oz., \$1.00; 4 ozs., \$3.25.

YELLOW SUPREME. A large, fluffy, well-rounded bloom of delicate milk-honey fragrance, with broad, loose frilled petals of rich, creamy lemon color. Plants practically free from objectionable Marigold odor.

1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.

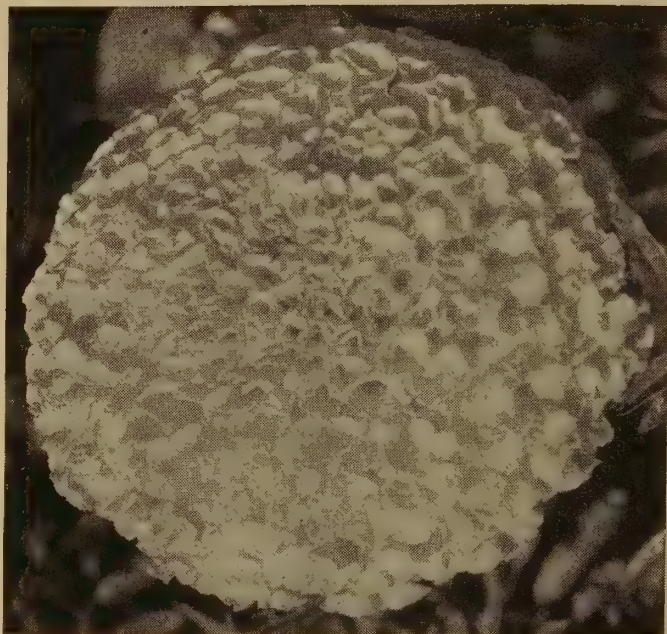
Chrysanthemum-flowered

GLITTERS. The 3-inch shaggy Chrysanthemum flowers of this All-America winner are a bright canary-yellow, abundantly produced on long strong stems. 3 ft. See color page 37.

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.



Marigold, Dainty Marietta



Marigold, Cracker Jack

Giant-flowered Type

Strong growing plants, 3 1/2 feet tall, bearing huge, ruffled, tightly petaled Peony-flowered blooms; the largest of any Marigolds.

CRACKER JACK. Earlier than Sunset Giants. Flowers uniform, 4 to 5 inches across growing on compact sturdy plants, 2 to 2 1/2 ft. tall. The bloom is better and a blend of primrose, yellow, gold and orange. See colored insert, page 37.

1/4 oz., 65c; 1 oz., \$1.75; 4 ozs., \$6.50, postpaid.

SUNSET GIANTS. Huge flowers, colors range through orange, yellow and primrose. A tall variety and a beauty.

1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.

MAMMOTH MUM. Tall, strong plants bearing 3 1/2-inch light yellow flowers on excellent stems. A florist favorite.

Pkt., 35c; 1/4 oz., 60c; 1 oz., \$2.00.

ORANGE SUNSET. Huge pure orange, strong growing plants 3 1/2 feet tall, bearing huge ruffled, tightly petaled Peony-flowered blooms, the largest of any Marigold.

1/4 oz., 60c; 1 oz., \$2.00.

HARMONY FRENCH TALLER TYPE. 2 1/2 ft. tall. Scabious-like flowers of deep orange with maroon collars of broad petals, crested centers.

1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50, postpaid.

DOUBLE TALL AFRICAN MIXTURE. Pkt., 10c; 1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

Dwarf French Single Types

FLASH. Single mahogany flowers with golden yellow margins on medium dwarf plants.

1/4 oz., 35c; 1 oz., \$1.00; 4 ozs., \$3.25.

NAUGHTY MARIETTA. Uniform, semi-dwarf, bushy plants, vigorous, free blooming with 2-in. flowers of golden yellow, each petal having a mahogany base.

1/4 oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

DAINTY MARIETTA. The blooms are much larger than might be expected on such dwarf, compact plants. They average 2 inches across and are made up of 5 or 6 overlapping petals of soft golden yellow with a maroon blotch at the base of each petal. Resembling somewhat the older strain of Naughty Marietta. Freedom of bloom as well as earliness make it an item of importance for the flat grower as well as a combination and pot plant item.

1/4 oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00, postpaid.

RED HEAD. Flowers 2 inches across, opening rich mahogany, changing to auburn and later to bronzy gold. Compact, dwarf plants, 1 foot high, completely covered with flowers.

1/4 oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

MARIGOLD—Continued

MEXICAN MARIGOLD, URSULA. (Signata Pumila). A free flowering strain with 7/8-inch florets of a bright golden orange with a brighter orange zone and eye.

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.

LULU. (Signata Pumila). Very compact dome-shaped plant 7 inches tall with spread of 12 inches, completely covered with dainty single florets in a pleasing shade of bright canary-yellow without zone but a small eye that is a trifle darker.

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.

EXTRA DWARF FRENCH DOUBLE TYPES

PARISIAN HYBRIDS. (NEW.) A distinctly new and sensational strain with all of the colors and hues known to Marigolds, in hundreds of new color combinations on a rich green background. This strain is early, free flowering and semi-double. The blooms are tightly packed, averaging better than 2 inches across.

1/4 oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.



Marigold, Spry

SPRY. Extra Dwarf. Very early flowering double, clear yellow crested centers surrounded by mahogany-red guard petals. See colored insert, page 38.

1/4 oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

BUTTERBALL. Light butter-yellow petals with wine red-dish tips. 6 to 8 inches. See colored insert, page 38.

SUNKIST. Orange, dwarf, compact, early.

GOLD CREST. Very early golden yellow 2-inch flowers with crested center, surrounded by guard petals.

DOUBLE DWARF FRENCH. Special Mixture including Spry, Butterball, Sunkist, etc.

SCARLET GLOW. The brightest red Marigold.

EXTRA DWARF HARMONY. (Midget Harmony.) Same color as Spry, but dwarf in habit. 6 inches.

COLOR MAGIC. Brilliant colors red to pure gold, many varied striped combinations in red and gold. Full double. Plant dwarf and compact. 6 in. See colored insert, page 35.

YELLOW PYGMY. Light lemon-yellow, only 8 inches tall and compact, small 1 1/4-inch blooms, free flowering and excellent for edging beds.

RUSTY RED (Fandango). Large, fully double flowers 2 inches and more across of rich rusty red, edged golden yellow. Freely produced, flowers borne in great profusion well above dwarf bushy plants from early summer to late fall.

TANGERINE. Orange companion to Rusty Red or Fandango. 12 to 14 inches.

LEMONDROP. Early, profuse blooming, compact 9-inch plants covered with fully double canary-yellow flowers. Seedling plants bloom in the flats for sales appeal. See colored insert, page 38.

Prices of all of the above Dwarf French Marigolds:
1/4 oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

PETITE MARIGOLDS

Dwarf French Double—1958 All-America Winners

These four double Petite Dwarf French Marigolds produce an abundance of very early blooms on compact plants, 6 inches tall, 10 inches wide. Four popular colors listed below and a special formula mixture. Shown in color on inside back cover.

PETITE HARMONY. Yellow crested on mahogany guard petals.

PETITE GOLD. Soft golden.

PETITE YELLOW. Butter-yellow.

PETITE ORANGE. Deep orange.

PETITE MIXTURE. Well balanced formula blend of the above 4 colors.

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.

Morning Glory (IPOMEA) (A)

(200 seeds per oz.)

COMMON MIXED.

1/4 oz., 25c; 1 oz., 75c; 4 ozs., \$2.25.

HEAVENLY BLUE.

1/4 oz., 35c; 1 oz., \$1.00; 4 ozs., \$2.50.

SCARLETT O'HARA. Deep wine-red. NEW climbing strain.

1/4 oz., 35c; 1 oz., \$1.00; 4 ozs., \$2.50.

PEARLY GATES. White.

1/4 oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.00.

GIANT CORNELL. Red with white edge.

1/4 oz., 35c; 1 oz., \$1.00; 4 ozs., \$2.50.

CRIMSON RAMBLER. Pkt. only, 15c.**Nasturtium (A)****DWARF, SINGLE MIXED.**

1 oz., 35c; 4 ozs., \$1.00.

TALL TRAILING, SINGLE MIXED.

1 oz., 35c; 4 ozs., \$1.00.

SCARLET GLEAM. Plain petaled and deep throated. This is a sweet scented variety similar to Golden Gleam.

1 oz., 35c; 4 ozs., \$1.00.

GOLDEN GLEAM. An attractive, double flowered sweet scented variety adapted for bedding, pot plants and cut flowers.

1 oz., 35c; 4 ozs., \$1.00.

DOUBLE GLORIOUS GLEAM HYBRIDS. A double flowering array of gorgeously large well formed flowers of dazzling beauty and an unusual color range and variation.

Oz., 45c; 4 ozs., \$1.50.

Nemesia (A)

(TRIUMPH MIXED)

(90,000 seeds per ounce)

Dwarf compact; 8-inch plants with brilliant orchid-like flowers.

1/16 oz., 45c; 1/4 oz., \$1.35; 1 oz., \$4.00, postpaid.

Nierembergia

(Blue Cup Flower) (P)

(5,000 seeds to the 1/32 oz.)

PURPLE ROBE. Color deep violet-purple, dwarf, compact, blooms over a long season. Excellent for dwarf perennial borders and rock gardens.

1/64 oz., \$1.00; 1/32 oz., \$1.50; 1/16 oz., \$2.50.

Nicotiana (A)

(SWEET SCENTED FLOWERING TOBACCO)

(275,000 seeds per ounce)

DAYLIGHT. Extra sweet scented, pure white, plants bushy, 20 inches.

AFFINIS. White 3 ft. plants.

SENSATION MIXED. More compact with a wide color range. Very fragrant. 2 foot plants.

CRIMSON BEDDER. Dwarf pyramidal, deep crimson, 32 inches.

Prices of all of the above: 1/4 oz., 55c; 1 oz., \$1.65, postpaid.

Petunias (A)

For Bedding and Pots
(250,000 seeds per oz.)

Grandiflora Single F₁ Hybrid Varieties

Large Single Dwarf Fringed
6000 seeds per 1/64 oz.

These popular single F₁ hybrids grown by Pan American are dwarf compact plants in growth habit. They bloom profusely with flowers over 3 inches in diameter and they hold their color throughout the season. They are recommended for bedding, borders, planters and pot culture. They are listed below in variety name and color description.

MAESTRO is a NEW F₁ Hybrid Grandiflora offered by Pan American for 1960. Its color is bright cerise-rose-red with magnificent yellow throat. Flower is 3 to 3 1/3 inches in diameter, fringed and slightly ruffled. The Maestro plant is dwarf, compact, spreading with dark green foliage. Order early. See color insert, page 36.

BALLERINA. Glowing salmon.
BLUE BELL. Mid-blue.
BLUE LACE. Orchid-blue.
BOLERO. Carmine-rose-pink.
CRUSADER. Striped rose-pink on white.
FIRE DANCE. Deep scarlet-red, gold throat.
LA PALOMA. Large well filled fringed flowers, 100% large flowering pure white with yellow throat.
LAVENDER LACE. Bright rosy orchid-lavender.
MAYTIME. Clear light salmon-pink.
PRIMA DONNA. Bright rose-pink.
SABRE DANCE. Huge bright crimson and white flowers, mostly with white star pattern.
TANGO. Deep salmon, outside bloom shading to scarlet near throat.
TOREADOR. Crimson-red.

All of the above: 1/2 tr. pkt. (500 seeds), \$1.20; tr. pkt. (1000 seeds), \$2.25; 1/128 oz., \$4.00; 1/64 oz., \$7.75; 1/32 oz., \$14.00; 1/16 oz., \$25.00; 1/8 oz., \$47.00, postpaid.

The MAGICS

BLACK MAGIC. Deep violet-purple. More free flowering than any Grandiflora in this color class. Flowers 3 to 3 1/2 inches in diameter. Nicely fringed.

BLUE MAGIC. Medium deep violet-blue color. Plain edged, free flowering, dwarf, compact, extra vigorous. Easy to grow.

Price of the above two varieties:

1/2 tr. pkt. (500 seeds), \$1.20; tr. pkt. (1000 seeds), \$2.25; 1/128 oz., \$4.00; 1/64 oz., \$7.75; 1/32 oz., \$14.00; 1/16 oz., \$25.00; 1/8 oz., \$47.00, postpaid.

PINK MAGIC. Early and free flowering, a smooth bright pink.

WHITE MAGIC. Early, large, ruffled, Grandiflora blooms of pure white; dwarf, heavy production of flowers.

Prices of the above two varieties:

1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00, postpaid.

F₁ Hybrid Multiflora Varieties for Bedding

These choice Multiflora hybrids have proven their value by popular demand for dwarf compact Petunias of true color, which do not fade during the summer heat. They are single, plain edged and sharp in their respective color. Plants usually range from 12 to 18 inches and are uniform and compact. They bloom profusely with a spread from 20 to 26 inches. Recommended for bedding, borders, and pots.

AZTEC. Scarlet-red with gold throat.

COMANCHE. Deep scarlet-red.

COMET. (New). Bright warm crimson-red with a perfect white star.

INCA. Deep rose with gold throat.

LINDA. Clear light salmon-pink.

MARS. Crimson-red.

MERCURY. A popular light blue color. The nearest to a true blue yet.

MOHAWK. Bright rose-pink.

NEPTUNE. Medium violet-blue.

PALEFACE. Pure white.

PINK SENSATION. Light rose-pink.

ROSE CHARM. Clear rich rose.

SATELLITE. Bright rose with perfect white star.

SIOUX. Medium tone salmon.

VENUS. Bright celestial rose-pink.

POW WOW MIXTURE. A well balanced formula mixture of the above colors.

All of the above: 1/2 tr. pkt. (500 seeds), 90c; tr. pkt. (1000 seeds), \$1.65; 1/128 oz., \$3.00; 1/64 oz., \$5.50; 1/32 oz., \$10.00; 1/16 oz., \$18.00; 1/8 oz., \$33.00.

LUSTRE SERIES

BLUE LUSTRE. Introduced in 1958. A deep velvety blue changing to a red undertone later. Plants about a foot tall, spreading 24 inches.

SCARLET LUSTRE. The new addition in the Lustre series is highly recommended by the originators as a brilliant scarlet-red flower with a yellow center and throat. 3 1/2 inches across and presenting the fancy waved and ruffled petal edges that have always been a gardener's favorite. The flowers are 100% Grandiflora in size and character. The plant is vigorous and sturdy about 1 foot in height, spreading 2 ft. across and best of all they bear lots of flowers over the whole area and during a very long blooming period.

1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00, postpaid.

SATIN SERIES

(Grandiflora F₁ Hybrids)

RED SATIN. All-American 1957 and was enthusiastically received as the outstanding red Petunia. Heat and sunshine fail to fade its vivid shining scarlet-red color. The flowers measuring 2 1/2 to 3 inches across are borne as high as 30 blooms to the plant. The plant attains 10 to 12 inches, globe shape in form. It is suited for low beds and borders to create a bright band of scarlet and it lends itself beautifully to pot culture. In color on back cover.

PEACH SATIN. This is the third member of the Satin series. Newly opened flowers are nearly coral in tone and as the bloom becomes full the color softens to an appealing warm salmon-pink. Flower size is greater than Red or Pink Satin, measuring 3 to 3 1/2 inches and the plants are slightly taller, reaching 14 to 16 inches.

PINK SATIN. As illustrious as its predecessor "Red Satin," this new F₁ hybrid Multiflora Petunia possesses the same attractive globe-shaped plant. The brilliant rose-pink flowers command attention by their intense concentration of color and then relieve that intensity with a clean, white area deep in the throat of the bloom.

Prices on the above three: 1/128 oz., \$3.50; 1/64 oz., \$6.00; 1/32 oz., \$11.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00, postpaid.

PETUNIAS—Continued

CHOICE JAPANESE IMPORTED PETUNIAS(Grandiflora F₁ Hybrids)

BLUE MANTLE. Dwarf large flowering, rich velvety violet-blue color. Plant is uniform, dwarf and compact in growth habit. Large flowers, beautifully waved.

BONFIRE. The flowers are a dazzling brilliant deep salmon-scarlet with golden throat, 3 inches in diameter, borne in great profusion on a dwarf compact plant. Very early flowering.

EXQUISITE. Dwarf large flowering variety of scarlet and white. The contrasting color is exceedingly regular and the flower is semi-fringed.

FAIRYLAND. Large flowers 3 inches across, beautiful light salmon-pink in color. Plant is 8 inches high with a compact growth. See colored insert, page 35.

FIRE GLEAM. Large fringed flowers measuring 3 to 3½ inches in diameter, color is medium salmon and fringed.

FLIRT. Flowers are a clear pink in color, 3 inches across. Dwarf compact plant, 9 inches.

MINSTREL. Beautiful field of white marked with rich blue and very uniform in its marking. Flowers are 3 inches across grown on dwarf compact plants.

PINK CHARM. Color is carmine-rose with 3-inch flowers. Dwarf compact plants growing not more than 8 inches tall.

SNOW CAP. Pure white, large flowers. Dwarf and vigorous in growth. One of the best large flowering whites.

SNOW LADY. A well fringed pure white flower growing on a vigorous dwarf habit compact plant. One of the earliest to flower.

Price of all of the above: 1/128 oz., \$3.35; 1/64 oz., \$6.15; 1/32 oz., \$11.50; 1/16 oz., \$20.00; 1/8 oz., \$35.00, postpaid.

GLITTERS. F₁ Multiflora. The first red and white bi-colored Petunia. Grows only 8 inches high, showy dwarf bedder and edger. Blooms are about 2 inches across. See colored insert, page 37.

1/128 oz., \$3.25; 1/64 oz., \$6.00; 1/32 oz., \$11.00; 1/16 oz., \$20.00, postpaid.

GIANT VICTORIOUS ALL DOUBLE FORMULA MIXED

This mixture is well balanced in colors of carmine, deep salmon, rose, pink, orchid, violet, white, purple and variegated. The flowers are 4½ inches, fully double, well-fringed, growing on dwarf uniform compact plants.

1/128 oz., \$6.95; 1/64 oz., \$12.00; 1/32 oz., \$22.00; 1/16 oz., \$40.00.

PETUNIA, Hybrid Nana Compacta

Dwarf, compact, free flowering 12- to 14-inch plants, bearing many medium sized plain-edged single flowers. For beds and borders.

ADMIRAL. Re-selected. The best dwarf clear blue Petunia of good size and an even compact grower.

1/16 oz., \$3.65; 1/8 oz., \$6.50; 1/4 oz., \$11.00, postpaid.

ALDERMAN (Blue Ball). Medium size flowers of deep violet-blue. Fine for pot plants and bedding.

1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.50, postpaid.

5512 BLUE BIRD or VIOLACEA. Very deep violet, 12 inches tall.

1/16 oz., 50c; 1/8 oz., 85c; 1/4 oz., \$1.25; 1 oz., \$4.00, postpaid.

5482 BLUE BEDDER. Mid-blue.

1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00, postpaid.

CELESTIAL ROSE IMPROVED. Deep rose, compact.

1/16 oz., 60c; 1/8 oz., 90c; 1/4 oz., \$1.40; 1 oz., \$4.50, postpaid.

5302 CREAM STAR. Soft creamy white flowers.

1/16 oz., 80c; 1/8 oz., \$1.25; 1/4 oz., \$1.80; 1 oz., \$6.50, postpaid.

5494 LIPSTICK. Carmine-rose with just a suggestion of salmon. Very true to color and habit.

1/8 oz., \$1.25; 1/4 oz., \$2.00; 1 oz., \$7.50, postpaid.

5500 ROSY MORN IMPROVED. Select rose, white throat, dwarf extra select stock.

1/16 oz., 60c; 1/8 oz., 90c; 1/4 oz., \$1.40; 1 oz., \$4.50.

5496 ROSE OF HEAVEN. Brilliant rose, dwarf, extra select stock.

1/16 oz., 60c; 1/8 oz., 90c; 1/4 oz., \$1.40; 1 oz., \$4.50.

SNOWBALL IMPROVED. An excellent pure white.

1/8 oz., 90c; 1/4 oz., \$1.60; 1 oz., \$5.00.

5303 TWINKLES. Masses of small bright rose flowers with white star.

1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.50, postpaid.

ELK'S STAR. Blue-purple flower, uniformly marked.

1/16 oz., \$1.50; 1/8 oz., \$2.25; 1/4 oz., \$4.00, postpaid.

5492 FIRE CHIEF. Brilliant scarlet-red. Plant dwarf.

1/16 oz., \$1.00; 1/8 oz., \$1.75; 1/4 oz., \$3.00; 1 oz., \$10.00.

GLOW. The richest red small flowering Petunia; a dwarf bushy plant which is covered with 2½-inch flowers of dazzling carmine-red.

1/32 oz., 60c; 1/16 oz., 90c; 1/8 oz., \$1.50; 1/4 oz., \$2.50.

Dwarf Small Flowering Mixtures

We offer these mixtures made up from 10 colors of the Nana Compacta class in the Extra Choice No. 1. A balance of color in these combination mixtures is the pleasing result.

These are well balanced mixtures of our own.

No. 1 EXTRA CHOICE MIXTURE. Containing Violaacea, Celestial Rose Improved, Rosy Morn, Rose of Heaven, Blue Bedder, Snowball Improved, Fire Chief, Lipstick, Alderman, Glow and Cream Star.

1/8 oz., \$1.25; 1/4 oz., \$2.00; 1 oz., \$7.00.

A New F₂ Hybrid Mixture

COLORAMA NANA COMPACTA. F₂ Hybrid. Mixed colors. Uniform plant habit, using for planting stock only those F₁ varieties that have proven to be uniform in height and plant spread in the F₂ generation, also reproducing uniformly large blooms, 2½ to 3 inches across.

1/8 oz., \$1.60; 1/4 oz., \$2.75; 1 oz., \$9.00.

Large Fringed Types**Grandiflora Single Fringed**

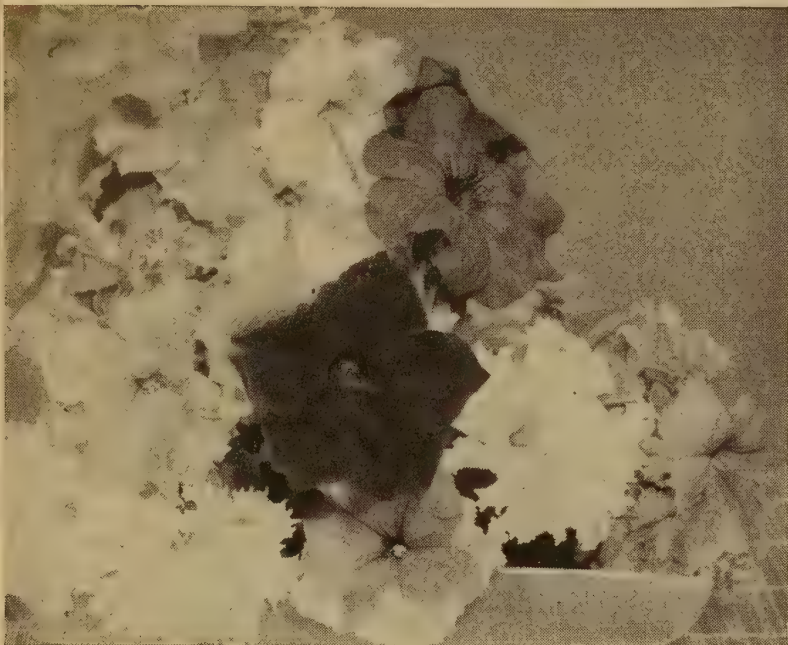
12 to 16 inches tall

5624 FLUFFY RUFFLES. Mixture of bi-color shades, many of which are not offered in separate colors.

1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

5618 FRINGED SNOWSTORM. Excellent white, compact.

1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.



Carnival

CARNIVAL

This new GRANDIFLORA MIXTURE is described by the originator as an F₂ hybrid, which by breeding skill assures a planting of multi-bloom plants, vigorous, dwarf and compact in habit of growth. Color ranges in fringed and ruffled flowers, of nearly 20 different shades which include crimson, blue, salmon, red, white, rose, shades of pink and a fascinating series of variegated white and rose, or white and blue flowers. See color insert, page 36.

1/32 oz., \$2.25; 1/16 oz., \$3.75; 1/8 oz., \$6.00; 1/4 oz., \$10.00; 1 oz., \$35.00, post-paid.

Large Plain Edged Types

Grandiflora Single Plain Edged

Free flowering 12- to 16-inch plants, some varieties spreading, others compact. Many plain edged flowers of heavy substance and velvety texture. Prime favorite of florists.

5644 DAZZLER. New brilliant scarlet, compact.

5658 ELK'S PRIDE. Darkest velvety purple.

5734 ROYALTY. Rich purple with white star.

5662 SNOWSTORM IMPROVED. Best florist white, yellow shaded throat.

5652 WHITE CLOUD. Pure white, compact.

5668 SPECIAL MIXTURE. A special Grandiflora type mixture. Large, plain-edged flowers including Popcorn, Dazzler, Elks Pride, Flaming Velvet, Royalty—to give a wonderful combination of color.

All of the above: 1/32 oz., \$2.75; 1/16 oz., \$4.50; 1/8 oz., \$8.00; 1/4 oz., \$15.00.

Grandiflora Nana Compacta

5446 KING HENRY. Velvety red. Large flowers, 8-inch plants.

1/32 oz., \$1.40; 1/16 oz., \$2.50; 1/8 oz., \$4.50; 1/4 oz., \$8.00.

5444 VELVET BALL. Round, compact, ball-shaped, 8-inch plants, velvety red blooms.

1/32 oz., \$1.40; 1/16 oz., \$2.50; 1/8 oz., \$4.50; 1/4 oz., \$8.00.

POPCORN. Pure white, single plain edge. Large blooms, early blooming. Plant dwarf and compact.

1/32 oz., \$2.75; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

PETUNIA, Hybrid

Strong growing and free flowering 20- to 24-inch plants, bearing many medium sized plain edged single flowers.

5432 FLAMING VELVET. Velvety blood-red.
1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

5422 HOWARD STAR. Reddish purple, white star.
1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

5430 VIOLACEA. Deep violet.
1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

5410 WHITE KING. White.
1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

5442 SPECIAL MIXTURE of the above varieties.
1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

CONFETTI. This new F₂ hybrid is a MULTIFLORA of unusual merit. Over 20 separate beautiful shades of color and bi-color retain their sharp, never fading true-ness throughout the blooming season, well up into autumn. Plants are vigorous, compact and dwarf, 12 to 16 inches, and produce heavily in the beautiful choice colored flowers. Ideal for bedding purposes.

1/16 oz., \$1.00; 1/8 oz., \$1.75; 1/4 oz., \$3.00; 1 oz., \$10.00.

Giants of California

5708 SUPER DWARFS EXTRA CHOICE BLEND. Giant flowers on plants having the ultimate in dwarf habit. Bred strictly for pots and combinations. Many bi-colors. Very low percentage of small flowered.

1/16 oz., \$5.00; 1/8 oz., \$9.00; 1/4 oz., \$17.50; 1 oz., \$65.00.

Double Ruffled Petunias

BALL'S CANADIAN ALL DOUBLE LARGE FLOWERING. All Double Formula Mixture. Made of the various All Double varieties now available, to which have been added separate colors in the right proportion.

1/2 trade pkt., \$2.50; trade pkt., \$4.00; 1/128 oz., \$7.60; 1/64 oz., \$14.45; 1/32 oz., \$28.00.



Petunia, Popcorn

PETUNIAS—Continued**Pan American All Double Petunias**

ALLEGRO. Bright deep salmon. Flowers $3\frac{1}{2}$ to 4 inches, fully fringed and double. Plant dwarf, strong and vigorous. Free base branching. 12 inches. For bedding, pots and borders.

CAPRICE. Bright rose color. Other characteristics same as Allegro.

MINUET. Orchid-lavender color, some variegated. Semi-tall, about 18 inches. Suggest pinching for more dwarfness and better branching. Near 100% Grandiflora. Flowers $3\frac{1}{2}$ to 4 inches, well fringed. Use for pots, boxes and bedding.

NOCTURNE. Color midnight-violet-purple. Medium to large, 3 to $3\frac{1}{2}$ inches, fringed and fully double. Not 100% Grandiflora. Plant medium dwarf, 15 inches, for garden bedding and pots.

RHAPSODY. Color burgundy-wine-purple. 100% Grandiflora. $3\frac{1}{2}$ to 4 inches, fully fringed, full double. Plant dwarf and compact, free base branching, 12 inches tall.

SONATA. Pure white. 100% Grandiflora. Deeply fringed and full double. Plant medium dwarf, 18 inches tall. Offered for general flower culture. Suggest March 1st sowing on Vermiculite for May 1st setting. Pinch back for dwarfness and better branching.

PRESTO. The newest in double ruffled. Is greatly improved over Gaiety. The color is rose and white variegated of the Crusader color combination, but the flower is fully double and ruffled, 4 inches in diameter. Plant is dwarf, vigorous, and excellent for potting and combination plantings. Colorful for window boxes and urns. It is used in the Glorious mixture, formula mixed.

GLORIOUS ALL DOUBLE MIXTURES. This is one of the best formula mixtures to grow. 25% Allegro, bright deep salmon; 35% Caprice, bright rose; 25% Sonata, double white; 10% Rhapsody, burgundy-wine-purple; 5% Minuet, orchid-lavender, 5% Nocturne, deep violet-purple. Plants are dwarf, 12 inches high with a 24-inch spread. Excellent for pot culture and planter boxes. Used widely in bedding and borders.

Prices on all the above varieties: $\frac{1}{2}$ tr. pkt., \$2.50; tr. pkt., \$4.00; $\frac{1}{128}$ oz., \$7.25; $\frac{1}{64}$ oz., \$14.00; $\frac{1}{32}$ oz., \$27.00; $\frac{1}{16}$ oz., \$52.00.

Pinks (DIANTHUS) (A)

(28,000 seeds per oz.)

SINGLE GAIETY (Heddiwegi laciniatus). Combining all the brightest and most brilliant shades of the single flowers. $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50, postpaid.

DOUBLE GAIETY (Heddewigi laciniatus). Plants are dwarf, compact, 10 to 12 inches, lacinated petals. Carnation shades, mixed.

$\frac{1}{4}$ oz., 50c; 1 oz., \$1.50, postpaid.

Poppies (A)

(73,000 seeds per oz.)

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

SHIRLEY, SINGLE MIXED. Lovely and dainty shades, many edged and shaded with other colors.

$\frac{1}{4}$ oz., 25c; oz., 75c.

SHIRLEY, DOUBLE MIXED. Beautiful double satiny flowers in shades of white, pink and old rose with white centers.

$\frac{1}{4}$ oz., 25c; oz., 75c.

CALIFORNIA POPPY (Eschscholtzia).

$\frac{1}{4}$ oz., 25c; 1 oz., 75c.

DOUBLE SHIRLEY, SWEET BRIAR.

Pkt., 25c.

AMERICAN LEGION.

Pkt., 25c.

**Pansies**

(12,000 seeds per oz.)

Seeds may be sown in August and seedlings transplanted in beds, with a mulch protection from extreme freezing. Pansies are also started inside early in the spring and then transplanted to open ground. They bloom early in spring and continue blooming throughout the summer. Do best in cool areas, shade or semi-shade.

SUPER SWISS GIANTS. This mixture combines the finest selections of several Pansy specialists, the perfect blending is further insured by the addition of separate colors that do not generally appear in the average mixtures.

$\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$35.00.

SUPER MAPLE LEAF MIXTURES "CANADIAN GIANTS." Maple Leaf Giants have large leaves of a rich dark green and flowers of gigantic size and heavy substance, with good stems, in a beautiful color range. Plants of compact and sturdy growth.

$\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$35.00.

SWISS GIANTS. (Reselected Florists Strain, Imported). Strong compact plants with large flowers, well above the foliage. The large flowers are distinctly marked in attractive color variations with high percentage of dark red, brown and bronze shades.

$\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.25; 4 ozs., \$20.00.

Phlox Drummondii

(18,000 seeds per oz.)

GRANDIFLORA MIXED. 12 inches. Unsurpassed for variety of color.

$\frac{1}{4}$ oz., 60c; 1 oz., \$2.00, postpaid.

NANA COMPACTA—Dwarf Varieties

DWARF GLOBE MIXED, NANA COMPACTA. A well balanced mixture in a full range of brilliant colors. Plant very even. 7 inches tall.

$\frac{1}{16}$ oz., 70c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85; 1 oz., \$5.50.

DWARF BEAUTY MIXED or CECILY. This strain is 10 inches tall with bright large flowers in a color range of blue, crimson, mauve, pink, salmon, scarlet, violet and white. Dwarf habit of growth. For pot culture, beds and borders.

$\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.50, postpaid.

DWARF "TWINKLE" PHLOX. The flowers of this dwarf beauty are like tiny stars, charming color combinations and contrasts. Plants are neat, dwarf, 8 inches high. Popular used in borders and beds. See color insert, page 37.

$\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$14.00, postpaid.

SCARLET, LARGE FLOWERING.

Pkt., 25c.

Portulaca (ROSE MOSS) (A)

(300,000 seeds per oz.)

This plant will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and soon the loveliest of floral carpets will appear.

BEST DOUBLE MIXTURE.

Pkt., 15c; 1/4 oz., \$1.00; oz., \$3.25; 4 ozs., \$11.00.



Double Portulaca

Pyrethrum (Painted Daisy) (P)

One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flowers. Flowers in May and June, frequently in August and September; all shades of rose and pink. Height 1 to 2 ft.

ROSEUM. Single mixed.

Pkt., 25c; 1/4 oz., \$1.50; 1 oz., \$5.00.

ROSEUM. Double mixed.

Pkt., 25c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.50.

Scabiosa (A) (Mourning Bride)

(3,500 seeds per oz.)

GRANDIFLORA MIXED. Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends. 1/4 oz., 45c; oz., \$1.35.

OXFORD BLUE. Pkt., 25c.**CAUCASICA.** Lavender-blue. Pkt., 50c.**Scarlet Runner** (A)

(30 seeds per oz.)

A very rapid grower, bearing sprays of bright scarlet, pea-like flowers from early summer to late fall.

Oz., 15c; 1/4 lb., 40c; lb., \$1.20, postpaid.

Stocks (A) (19,000 seeds per oz.)

NEW TRYSONIC GIANT IMPERIAL. Double flowering. 2 1/2 feet tall.

1/32 oz., 90c; 1/16 oz., \$1.50; 1/8 oz., \$2.60, postpaid.

DWARF LARGE FLOWERING "TEN WEEKS." Favorite for bedding. Grows about 1 ft. high. Mixed all colors.

1/4 oz., 60c; 1 oz., \$1.85; 4 ozs., \$5.50, postpaid

BLOOD RED. Ten Weeks Stocks.

1/4 oz., 75c; 1 oz., \$1.95; 4 ozs., \$6.00, postpaid.

MAMMOTH DOUBLE BEAUTY OF NICE. Just as early as the Dwarf Ten Weeks variety, forming plants pyramidal in shape. Height 18 inches.

1/4 oz., 50c; 1 oz., \$1.65; 4 ozs., \$5.00, postpaid.

Salvia (FLOWERING SAGE) (A)

(7,500 seeds per oz.)

A hedge or bed of Salvias is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about 1/4 inch deep; transplant when soil is well warmed, about 12 to 18 inches apart.

AMERICA. (Globe of Fire.) 16 inches tall. Early dwarf. 1/4 oz., \$1.50; 1 oz., \$4.50; 4 ozs., \$15.00.

BLAZE OF FIRE. 14 inches. Bright scarlet. Earliest of all. 1/4 oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$21.00.

BONFIRE. About 18 inches tall, compact, early.

1/4 oz., \$1.35; 1 oz., \$4.00; 4 ozs., \$13.50.

FARINACEA. Blue bedder. Deep blue. 3 ft. tall.

1/4 oz., \$1.25; 1 oz., \$4.00.

FIREWORKS. 10 inches tall and an improvement on St. John's Fire.

1/8 oz., \$1.75; 1/4 oz., \$3.00; 1 oz., \$10.00; 4 ozs., \$35.00.

SALVIA SPLENDENS. About 2 1/2 ft. tall. The standard late tall scarlet.

1/4 oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$12.00; 1 lb., \$36.00.

ST. JOHN'S FIRE. 12 inches. Extra early bright scarlet, uniform and compact. An excellent strain. See color insert, page 36.

1/4 oz., \$2.65; 1 oz., \$8.00; 4 ozs., \$24.00; 1 lb., \$85.00, postpaid.



Salvia

IMPORTED SALVIA SEED**SALVIA SPLENDENS.** 24 inches.

1/2 oz., \$1.00; 1 oz., \$1.75; 4 ozs., \$6.00, postpaid.

CLARA BEDMAN or BONFIRE. 18 inches.

1/2 oz., \$1.50; 1 oz., \$2.50; 4 ozs., \$8.00, postpaid.

AMERICA. (Globe of Fire.) 16 inches tall.

1/2 oz., \$1.75; 1 oz., \$3.00; 4 ozs., \$10.00, postpaid.

ST. JOHNS FIRE. 10 inches.

1/2 oz., \$3.25; 1 oz., \$5.75; 4 ozs., \$20.00, postpaid.

EXTRA DWARF SCARLET PYGMY (Fireball or Scarlet Piccolo). A new, very compact and well-branched variety blooming as early as St. John's Fire. 7 to 8 inches. Especially good for early pots and flats.

1/2 oz., \$3.50; 1 oz., \$6.50; 4 ozs., \$24.00, postpaid.

Rust-Proof Snapdragon

(ANTIRRHINUM)

(220,000 seeds per oz.)



Snapdragons

ROCKET SNAPDRAGON. F₁ Hybrid. All-America Winner for 1960. The first F₁ Hybrid Snapdragon. Height 30 to 36 inches. Far superior to other garden types. Bred especially for heat resistance and summer bloom. Winter hardy in milder climates. Sow early and set early for best results. Mixed colors: Red, Golden, Rose, White, Bronze and Orchid. In color on back cover.

1/32 oz., \$5.00; 1/16 oz., \$9.00; 1/8 oz., \$17.00;
1/4 oz., \$32.00.

PANORAMA. 2½ ft. tall. This F₂ Snapdragon is a great favorite as an outdoor cutting Snap. It has a wide color range of beautiful 8- to 10-inch spikes, borne on plants which are compact, and sturdy in growth habit. Heat resistant.

1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.50, postpaid.

COLOSSAL STRAIN. (Colossal Snapdragons.) Finest mixed. The tremendous vigor that produces strong 2½ ft. stems filled with very large florets even under adverse conditions. "Velvet Giant," a deep velvet-red, and "Crimson," a fiery crimson, have been added to the mixture for darker shades. All colors blended.

1/4 oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$14.00.

TETRAPLOID SUPERFINE MIXTURE. (Tetra Snap.) The most satisfactory outdoor Snapdragon offered today. Plants tall, husky and erect, with huge ruffled florets and long spikes. The outstanding variety for plant growers.

1/4 oz., \$1.50; 1 oz., \$4.50; 4 ozs., \$16.50.

MARDI GRAS. This is an F₂ Hybrid mixture with a wide color range and vigorous growing characteristics. The plants are of normal height and flower early, blooming ahead of hot weather, which so seriously affects Snapdragon quality.

1/4 oz., \$1.25; 1 oz., \$3.50, postpaid.

SUPER MAJESTIC. Medium tall, rust resistant, 20 inches. A medium tall class of base branching plants with heavy compact spikes of large blooms. Excellent for both garden and cut flowers. Superb mixed colors.

1/4 oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

GIANT RUFFLED TETRA, CRIMSON. Large, deep, but bright velvety flowers closely set on long, broad, tapering spikes. Dark green, thick-textured foliage.

1/4 oz., \$3.50; 1 oz., \$12.00.

CRIMSON. Maximum size 2½ ft. Color fiery crimson.

1/4 oz., \$1.50; 1 oz., \$4.50, postpaid.

VELVET GIANTS. Deep velvet-red. Not a tetra, but looks like one. Tremendous size and vigor. 2½ ft. tall.

1/4 oz., \$1.50; 1 oz., \$4.50, postpaid.

PADRE. A glistening crimson, rich and beautiful, large flowering, tall. 2½ ft.

1/4 oz., \$1.25; 1 oz., \$3.75.

TOM THUMB. An attractive bedding Snapdragon 8 inches tall, well balanced in colors of red, pink, peach, yellow and white shades. Can be used for borders.

1/8 oz., 65c; 1/4 oz., \$1.00; 1 oz., \$3.50.

MAGIC CARPET MIXED. 6 inches. Rich soft colors. A Snapdragon of almost creeping habit, fairly covered during the summer with flowers. Useful for border or rock garden.

1/4 oz., 90c; 1 oz., \$2.75.



Magic Carpet Snapdragons

SCHIZANTHUS, Dr. Badger. Pkt., 25c.

SENSITIVE PLANT. Pkt., 25c.

SNOW-ON-THE-MOUNTAIN. Pkt., 25c.

STATICE. Mixed. Pkt., 25c.

STRAWFLOWER (Helichrysum). See page 39.

SWEET WIVELSFIELD. Pkt., 25c.

Sunflower (HELIANTHUS) (A)

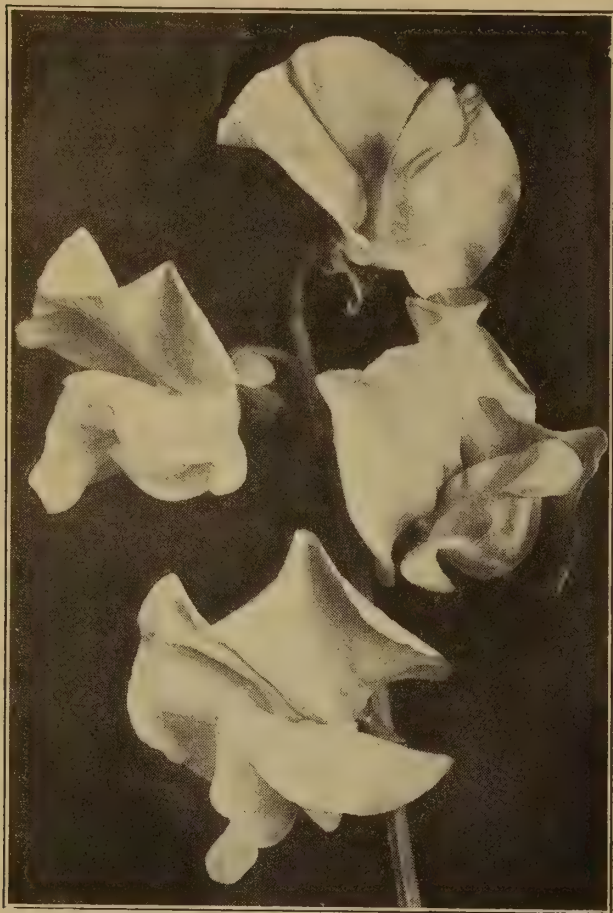
(700 seeds per oz.)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 feet.

DOUBLE CHRYSANTHEMUM-FLOWERED. Large, golden yellow flowers, resembling a Chrysanthemum.

Pkt., 10c; 1 oz., 85c.

RED and GOLD. Pkt., 15c.



Sweet Peas

Sweet Peas

(340 seeds per oz.)

Cuthbertson

In Separate Colors

DANNY. Blue. **RUTH.** Deep rose-pink.
DAVID. Rose-crimson. **KENNETH.** Crimson.
EVELYN. Cream-pink.

Any of the above: Pkt., 25c.

CUTHBERTSON MIXED. A well balanced formula mixture of all of the above colors.

1/2 oz., 25c; oz., 45c; 1/4 lb., \$1.00; 1 lb., \$3.25, postpaid.

FLORIBUNDA SWEET PEA. Heat resistant, long stems and vigorous vines with five or more fragrant flowers to stem.

PEGGY. White. **SALMON-CREAM-PINK**
LAVENDER **TOMMY.** Blue.
MAUVE

In pkts. only at 25c each.

PERENNIAL SWEET PEAS (*Lathyrus latifolius*). (Hardy Sweet Pea). Very decorative, climbing vine of the Pea family for growing on fences, trellis, etc., and for cutting. Blooms all summer if the seed pods are removed. Mixed.

1/2 oz., 85c; 1 oz., \$1.50; 4 ozs., \$5.00.

Sweet William (A)

WEE WILLIE. This new annual Sweet William was introduced last year, and has received popular acclaim. Wide color range in crimson, ruby, deep rose, pink and white. Dwarf in growth habit, 4 to 6 inches. Blooms outdoors in 7 to 8 weeks after planting. Can be forced in greenhouse in 6 weeks to first bloom.

1/16 oz., 65c; 1/4 oz., \$2.00; 1 oz., \$6.00, postpaid.

Sweet William (P)

(31,000 seeds per oz.)

Seed for this charming old-fashioned favorite may be sowed any time from spring to mid-summer. Provide protecting cover for young plants during the winter.

DOUBLE MIXED TALL (2 feet). This mixture you will find of superior quality, containing all colors and shades! 1/4 oz., 35c; 1 oz., \$1.00.

DOUBLE FLOWERED DWARF MIDGET MIXED. Six inches. A dwarf variety ideally adapted for early flowering, and for the perennial border as well as pot plants. 1/4 oz., 90c; 1 oz., \$3.00.

DOUBLE DWARF DARK CRIMSON. Use separately or combine in Midget mixed for added color. 1/4 oz., \$1.75; 1 oz., \$6.00, postpaid.

Verbena (A)

(12,500 seeds per oz.)



Verbena

HYBRIDA GRANDIFLORA MAMMOTH MIXED. Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. Of trailing habit.

1/4 oz., 75c; 1 oz., \$2.00.

BUSH TYPE MIXED. (Gigantea Dwarf.) Ideal florist strain. Height 6 inches. A compact plant. Mixture of many colors. 1/4 oz., \$1.00; 1 oz., \$3.50, postpaid.

DWARF COMPACT, FAIRYLAND MIXED. Globe-shaped plants averaging 8 to 10 inches tall with a spread of about 12 inches, quite free flowering with an excellent bright color range, half of the plants have a small white eye.

1/4 oz., \$1.00; 1 oz., \$3.75; 4 ozs., \$12.50.

Vinca

(20,000 seeds per oz.)

LITTLE PINKIE (Coquette). A dwarf selection out of Vinca Rosea, 8 to 10 inches. Compact plants, covered with rose flowers of good size. Very free flowering.

1/4 oz., \$1.00; 1 oz., \$3.50.

Zinnias (A) (2,500-4,000 seeds per oz.)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

DARK JEWELS. Giant Cactus-flowered. A new and specialized formula with particular emphasis on the dark strong colors. Strong orange-flame, scarlet, golden yellow, lavender, spirea-red and cherry blooms. Dark Jewels concentrate on the rich colors that stand out in the garden. **Oz., \$3.75; 4 ozs., \$12.50.**

CALIFORNIA GIANTS. Finest Mammoth Mixed. This is a formula mixed blend made up of the choicest colors of this attractive strain of Zinnia. The flowers are gigantic in size with thickly set velvety petals. They are borne on long stems (excellent for vase flower). The plants are 3 to 4 ft. tall, of vigorous growth. See color insert, page 35.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

CALIFORNIA GIANTS. In separate colors. Lavender, royal purple, scarlet-flame, light rose, golden yellow, light orange, pink, light yellow, orange and gold.

Tr. pkts. only, 25c each.

GIANT DAHLIA-FLOWERED. Finest Mixed. Originator's strain of this popular cut flower. The flowers truly resemble the show type Dahlias, with broad imbricated petals. The gorgeous blooms often measure 6 to 8 inches in diameter and 4 inches in depth. The selected colors offer an attractive range and blend. The sturdy plants grow 2 1/2 to 3 ft. tall.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

DAHLIA-FLOWERED CRIMSON.

DAHLIA-FLOWERED SCARLET.

**DAHLIA-FLOWERED
ORANGE and GOLD.**

Popular
separate
colors,
tr. pkt., 25c.

BLAZE. All-America Winner 1954. Brilliant mandarin-red flowers which soften to scarlet-orange as the flowers attain size. Free blooming, uniform plants 28 to 32 inches tall.

1/8 oz., 35c; 1/4 oz., 60c; 1 oz., \$2.00; 4 ozs., \$7.00, postpaid.

PRIDE OF DIELDRIN. (New). Here is a new giant Cactus-flowered Zinnia that genuinely glows with color. The scarlet flame center is surrounded by outer petals of bright golden orange, and the plants are both husky and most generous of bloom.

1/4 oz., 75c; oz., \$2.25; 4 ozs., \$8.00.

GIANT CACTUS-FLOWERED MIXED. An extra large Zinnia up to 6 inches in diameter. The petals of some are fluted, others are flat and twisted, blending into a beautiful color combination of rose, lavender, canary-yellow, orange, scarlet, white and cerise. Plants are sturdy and are from 24 to 28 inches tall.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.



Zinnia, California Giant

FANTASY. This Zinnia produces a composed mass of shaggy-like petals of medium sized double flowers, very colorful, including brighter shades of red and orange, pastel pinks and cream.

Oz., \$1.25; 1/4 lb., \$4.25; 1 lb., \$12.00, postpaid.

ORTHO-POLKA. Large flowers of peppermint stick coloring. Flowers 4 inches in diameter, plants 3 feet tall. See it in color, inside back cover.

1/8 oz., 60c; 1/4 oz., \$1.00; 1 oz., \$3.00; 2 ozs., \$5.50, postpaid.

PEPPERMINT STICK (Striata). Flower petals are striped in various color combinations, red and white, red and yellow, purple and white, carmine and white, orange and yellow. Approximately 70% striped. Finest mixed.

1/4 oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.25, postpaid.

PERSIAN CARPET. Fully double, ball-shaped flowers of miniature type, with cutting stems borne on low, mound-shaped border and edging plants.

1/4 oz., 90c; 1 oz., \$2.75; 4 ozs., \$8.00, postpaid.

LILLIPUT DOUBLE MIXED, or "POMPON." Height 1 1/2 feet. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a Daisy flower in size. They are pretty plants. See colored insert, page 38.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

LILLIPUT "TOM THUMB" MIXTURE. Small, double flowers cover the plants which grow 8 to 10 inches high. Finest mixed with a nice range of colors.

1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50, postpaid.

INDIAN SUMMER GIANT MIXTURE. Pkt., 25c.

ALL GIANT PASTEL MIXTURE. Pkt., 25c.

CREeping ZINNIA. Pkt., 25c.

CUPID TINY TIM. Pkt., 25c.

VIOLA, Blue Perfection. Pkt., 25c.

VIOLA, Mixed. Pkt., 25c.

VIRGINIAN STOCK, Mixed. Pkt., 25c.

WILD GARDEN MIXTURE. Pkt., 25c.



Lilliput
Zinnias

Tulips, Hyacinths, Crocus, Daffodils, Narcissus for Fall Planting

These are imported bulbs from the Netherlands, and will not be available until September 15th, 1960, at which time we will be glad to quote prices on request.

Tulips, Darwin (Top Size)

BARTIGON. Fiery crimson with pure white base. Strong stem. Excellent for forcing. 24 inches.

BLEU AIMABLE. Bright lilac-blue, shaded steel-blue, inside darker with a blue base. 29 inches.

CLARA BUTT. Clear salmon-pink with a white base flecked blue-gray. 26 inches tall. An old favorite.

GOLDEN AGE. Large, deep golden yellow, slightly shaded orange when fully developed. 26 inches tall. Fine shape.

LA TULIPE NOIRE. The black Tulip. Deep maroon-black. Definitely the closest to a real black. 26 inches tall.

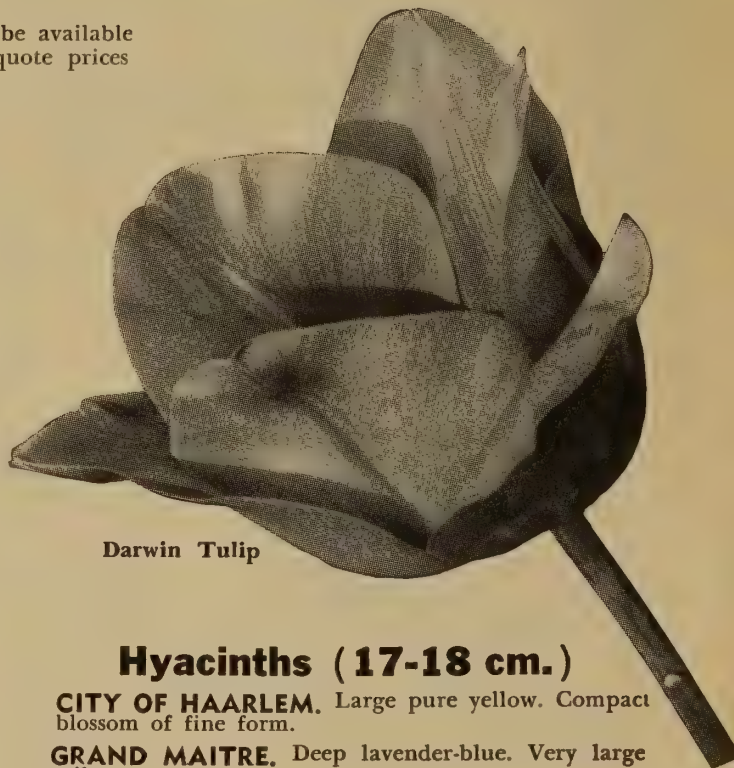
PRIDE OF HAARLEM. One of the best known and most popular varieties. Brilliant cerise-scarlet with a blue base. 28 inches tall.

PRINCESS ELIZABETH. Lovely soft rose-pink with lighter edges and a white base. Good forcing variety also 26 inches tall.

CHARLES NEEDHAM. Brilliant scarlet with blue base. One of the best new varieties with a strong stem 24 inches tall.

THE BISHOP. Beautiful deep violet with a small, dull blue base edged white and purple anthers. 29 inches tall.

ZWANENBERG. Large pure white with black anthers. Tall stem. A very popular variety. 28 inches tall.



Darwin Tulip

Hyacinths (17-18 cm.)

CITY OF HAARLEM. Large pure yellow. Compact blossom of fine form.

GRAND MAITRE. Deep lavender-blue. Very large spike.

LA VICTOIRE. Bright carmine-rose. Large spike and a very fine, sturdy stem.

L'INNOCENCE. Pure white. Large spike with large bells.

QUEEN OF THE PINKS. Bright rose-pink. Enormous, compact spike.

KING OF THE BLUES. Rich dark blue. Splendid spike with large bells.

Crocus (Top Size)

KATHLEEN PARLOW. Large pure white with yellow anthers.

KING OF THE STRIPES. Large white with purple stripes.

MAMMOTH YELLOW. Large golden yellow.

PURPUREA GRANDIFLORA. Rich, deep purple. Immense flowers.

AS WELL AS MANY OTHERS



Hyacinths

Narcissus and Daffodils

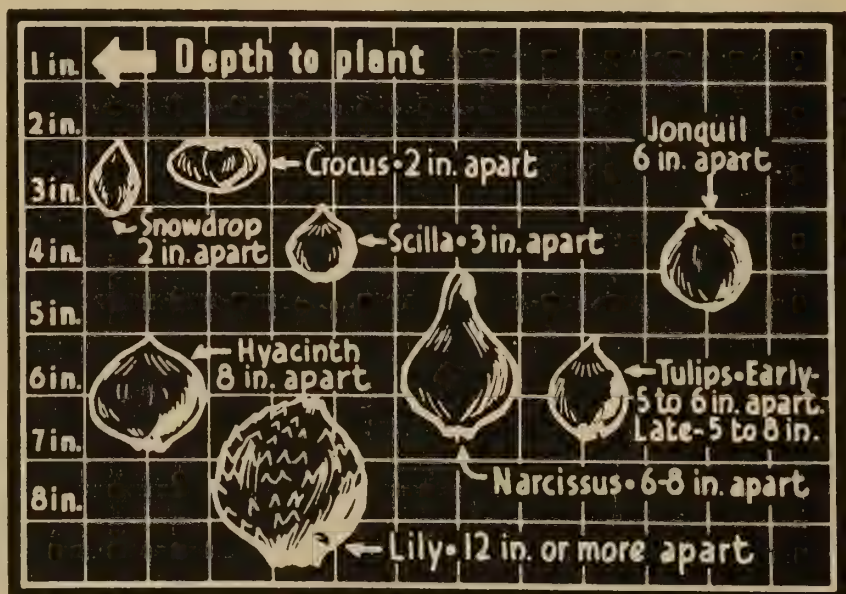
(No. 1 bulbs)

KING ALFRED. Golden yellow. Broad perianth and a large trumpet frilled at the mouth. Popular. 16 inches.

MRS. E. H. KRELAGE. Pure white perianth and a creamy white trumpet recurving at the brim. 20 inches.

MUSIC HALL. Pure white perianth and a gold-yellow trumpet. 18 inches.

LAURENS KOSTER. (Poetaz). Creamy white perianth and a lemon-yellow center. Very fragrant. Several flowers on a stem. 14 inches.





Picardy

Gladiolus

OUTSTANDING VARIETIES

Price: 75c per doz.; \$5.75 per 100

State inspected, treated with an insecticide and fungicide, ready to plant.

ABU HASSAN. Dark violet-blue; strong, slim stems.

BENJAMIN BRITTEN. Tall; deep lavender.

BLUE BEAUTY. Exhibition. Light blue shading darker toward the edges.

BURMA. Exhibition. Large ruffled deep rose.

ELIZABETH THE QUEEN. Exhibition. Giant ruffled lavender.

ELMER'S ROSE. Deep rose, heavily ruffled, opens 8 to 9 well placed blooms on 20-bud spike.

FLORENCE NIGHTINGALE. Fine white. Opens 6 to 8 glistening, wavy, 5½-inch florets on tall spikes.

FRIENDSHIP. Very early. Flesh toned pure pink.

GOLD. Rich, deep golden yellow.

HANS VAN MEEGEREN. Good clear yellow.

HAPPY END. Early salmon-scarlet with a yellow throat.

JO WAGENAAR. Rich and brilliant deep red; white line on lower petal.

LIEF ERICSSON. Beautiful ruffled cream.

ORANGE GOLD. Genuine orange self; smooth, tailored flower on tall stems.

PACTOLUS. Deep apricot with bright red blotch.

PALETTE. Striking combination of vermilion-red with purple throat spot.

PHANTOM BEAUTY. Beautiful light blush-pink, opening up to 12 closely arranged blooms.

PICARDY. Exhibition. Delicate apricot-pink. Flowers are all extremely large and of heavy, wax-like substance.

RED CHARM. Exhibition. Very attractive shade of medium red.

SALMAN'S SENSATION. Largest and tallest of the blues.

SANS SOUCI. Tall scarlet-red, large flowers.

SHERWOOD. Beautiful purple, shading to a darker blotch, with 7 large flowers open.

SPOTLIGHT. Decorative. Large deep yellow with red spot. Florets of large size and perfectly placed. One of the finest that is grown.

SPIC AND SPAN. Tall, ruffled deep pink; many open.

TRAVELER. Light rose-pink of good texture, nicely frilled. Will open 10 to 12 florets.

UHU. A colorful smoky orange.

WHITE GODDESS. Tall large flowered ruffled white.

ALL BULBS LISTED ARE SUBJECT TO THE 3% MICHIGAN STATE SALES TAX, and are postpaid anywhere in Michigan.

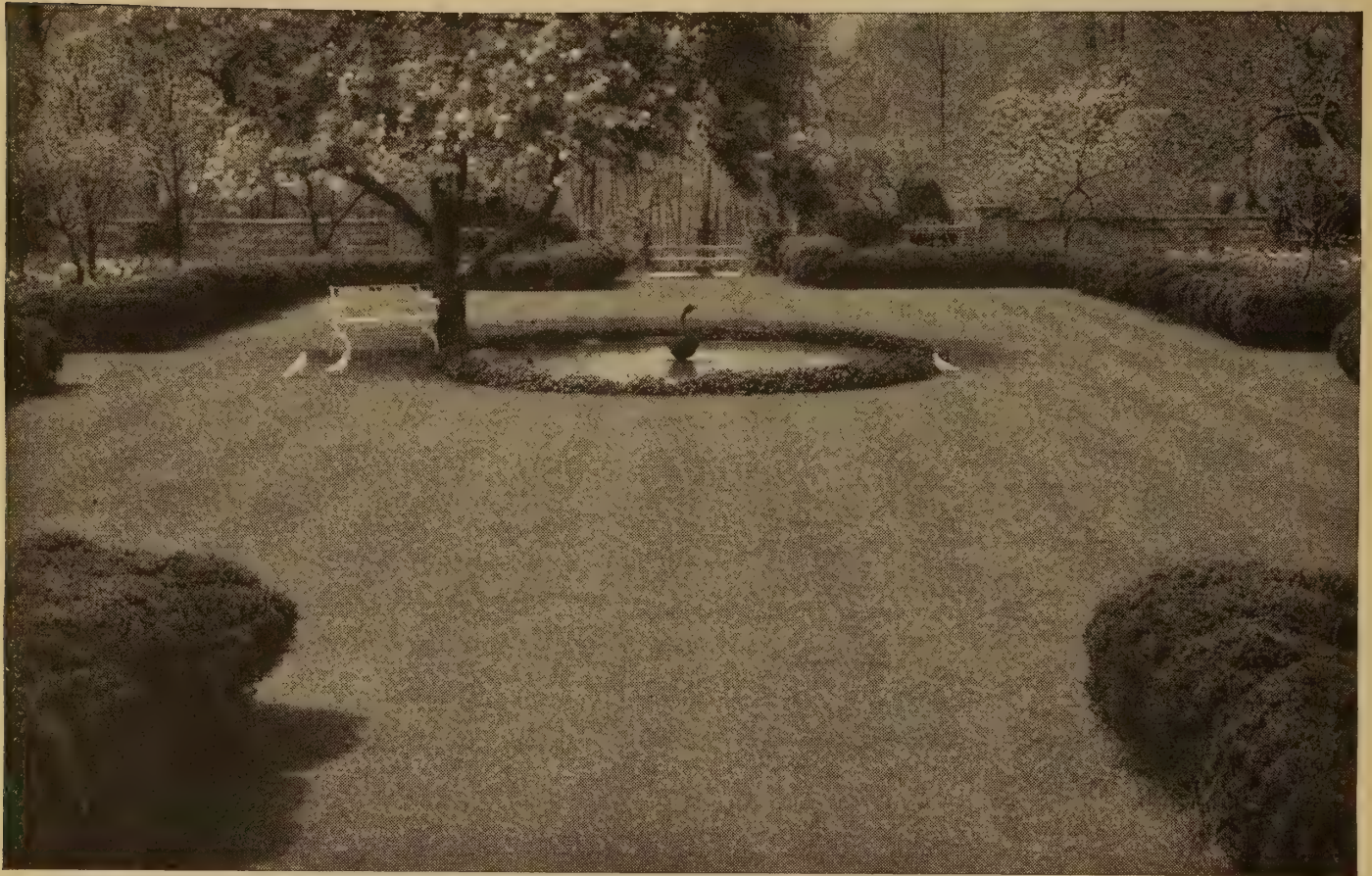
Elsewhere, the postage will be extra, and as we cannot tell what the weight will be we would suggest that you send us enough, as any money that is not needed will be promptly refunded. See postal rates on page 3.

GLADIOLUS MIXTURE

20 Large Size Bulbs—10 or more varieties in the mixture, giving complete color range—for only ..\$1.00



Making a Lawn and Its Care



HOW TO BUILD A NEW LAWN

Planting Time—Spring, Summer, Fall

SOIL PREPARATION. Cultivate soil to a depth of 6 to 8 inches, with garden fork, rototiller, or tractor cultivator. Pulverize surface with garden rake to form a smooth level seed bed.

FERTILIZING. Apply lawn food at the same time the lawn is seeded. This complete plant food should be a 10-6-4 formula or something similar and should be applied at only 10 lbs. per 1000 square feet.

SEEDING. Broadcast lawn seed at the rate of one pound to 200 square feet. Rake lightly into the soil and firm surface with a lawn roller unless your soil is a heavy clay adobe. A light mulch of weed-free straw or peat moss spread over the lawn after seeding will help keep the soil moist and stimulate better germination.

WATERING. If soil is especially dry, soak seed bed thoroughly before seeding. After seeding sprinkle with a fine spray, keeping top soil moist until seedlings are well rooted. Don't allow soil to dry or crust.

MOWING. As soon as seedlings are 3 inches high, start cutting with a sharp mower. Keep lawn cut about 1½ to 2 inches high.

HOW TO REPAIR AN OLD LAWN

Turn over bare spots to a depth of 4 to 6 inches, adding a good fertilizer and a good loam soil if possible. Rake surface evenly, seed at same rate listed above, firm ground with a roller, unless your soil is heavy clay or adobe, then keep well watered until seedlings are well rooted. Don't let newly seeded spots bake or dry out. To repair thin lawns, vigorously rake the soil surface to prepare a deep bed. Seed at the same rate listed above and cover lightly with rich top soil or peat moss. Water carefully and keep the surface moist until the seedlings become well rooted.

HOW TO KEEP YOUR LAWN IN GOOD CONDITION

Remember that "grass" is a mass of individual plants, each with its own requirements of food, moisture and sunlight. When Nature's supply fails, the plant protects itself by becoming dormant—its energy retires to the roots and the top dies off leaving your lawn an expanse of dry brown instead of lush green. While sunlight is beyond your control, you can supply food and moisture and it is your job to do so before they are desperately needed. Ninety-five percent of the grass plant foods is carbon, manufactured from carbon dioxide in the air by the chlorophyll in the leaves. The remainder—just as vitally needed, consists of nitrogen, phosphates, potash and minor elements. Commercial fertilizers containing the proper proportions are available. We shall be glad to make recommendations as requested.

FERTILIZING. Apply at least twice a year, early spring and early fall.

WATERING. Hot, dry spells can occur any time. Grass will go dormant unless watered. Don't tease your lawn by light frequent sprinkling. Give it a good soaking less often.

CUTTING. Mowing chops off part of the food factory in the leaves. Set your mower for not less than 1½ inches height. In hot weather allow the blades to grow a little longer than usual. This shades the soil, helps retain moisture. It discourages crab grass, a sun loving hot weather plant.

Grade "A" Sunny Lawn Mixture

This is our own mixture, containing Merion Kentucky Blue Grass, Fancy Red Top, Red Creeping Fescue, Chewings Fescue, Rye Grass, and 5% pure White Clover. Wonderful results are and have been obtained with this mixture. We use only the very best of seeds obtainable, of lasting value and hardiness, giving you a beautiful and permanent lawn that will last for years.

Grade "A" Shady Lawn Mixture

Contains Chewings Fescue, Poa Trivialis, Kentucky Blue Grass and Red Top. This mixture is our own, being mixed by ourselves especially for shady spots. We use only the very best seeds obtainable and as more care and attention is required we have used the hardier grasses, that will make a dense, thick growth in light soils and a satisfactory lawn in shady places or where sun is available only part of the time.

KENTUCKY BLUE GRASS. Perennial. Dark green, medium leaf blade. Cold resistant. Well adapted to northern states, mountainous and cooler localities farther south. A vigorous grower in these localities. Spreads by underground runners. Prefers rich soils. Does poorly on infertile soils, becomes dormant in summer unless well watered and fertilized. Germinates in 3 to 4 weeks, 2,200,000 seeds per pound. Recommended for lawns, fairways, pastures, airports, athletic fields.

MERION KENTUCKY BLUE GRASS. An improved strain of regular Kentucky Blue Grass developed by the U. S. Dept. of Agriculture from a strain of Kentucky Blue Grass found on Merion Golf Course near Philadelphia. Dark green color, leaves slightly wider than ordinary Kentucky Blue Grass. Very winter hardy; turns green earlier in the spring and stays green longer in hot weather. Deeper rooted and produces a much thicker turf than ordinary Kentucky Blue Grass. Resists common fungus diseases and will thrive under close mowing. Germination time about the same as Kentucky Blue Grass, but once started Merion is more vigorous and fills in quicker after injury. It needs to be mowed only about half as often as regular. Seed is slightly larger, about 2,000,000 per pound. An excellent grass in lawn seed mixtures and on golf course fairways.

RED TOP. Perennial. Quick growing. Medium to fairly wide blade. Deep green. Stands dry soils better than Kentucky Blue Grass. Tolerates poorer soils. Becomes somewhat coarse with age. Fairly cold resistant. Will grow on soils very low in lime. Spreads by underground runners. In lawns will usually last 1 to 3 years. Germinates in about 7 to 8 days. 5,000,000 seeds per pound. Used in lawns, pastures, athletic fields, airports.

DOMESTIC RYE GRASS. (Common.) Annual. Shiny wide dark green leaf blade. Vigorous grower. Very competitive to other grasses. Adapted to both rich and poorer soils. Tends to bunch. Becomes rather difficult to cut with a lawn mower. Germinates in about 7 to 8 days. 230,000 seeds per pound. Used for pastures and lawns.

PERENNIAL RYE GRASS. Usually not winter-hardy in the northern part of the United States. Shiny, deep green, medium wide leaf blade. Adapted to fairly wide range of soils and soil conditions. Bunches and becomes difficult to mow. Germinates in 7 to 8 days. 230,000 seeds per pound. Used for pastures and lawns.

WHITE CLOVER. (Dutch.) Low growing broad-leaved legume. Ordinarily long-lived but stands often thinned by diseases and insects. Adds nitrogen to the soil, but is objectionable on fairways because of the large white flower heads. Spreads by above-ground stolons or runners. Thrives best under cool moist conditions in fertile soils with plenty of lime. Germinates in 7 to 12 days. 800,000 seeds per pound. Used in lawns, pastures, parks and meadows.

POA TRIVIALIS or ROUGH BLUEGRASS. Primarily a shade grass. A strain of blue grass usually imported from Denmark. Fine leaved, bright yellowish green, not too satisfactory for sunny spots. Spreads by stolons (surface stems) or runners. 2,500,000 seeds per pound.

CHEWINGS FESCUE. Perennial. A fine leaved somewhat wiry, bright green grass. Deep rooted. Fairly drought resistant. Does better in poorer acid soils than Kentucky Blue Grass. Does not creep by underground runners. Tends to bunch when thin. Does well in shade or in sun. Occasionally difficult to mow unless lawn mower is well sharpened. Cold resistant. Germinates in 10 to 14 days. 600,000 seeds per pound. Used in lawn, shaded areas, pastures, athletic fields.

RED CREEPING FESCUE. Perennial. Fine leaved. Similar in appearance to Chewings Fescue. Doesn't bunch. Spreads by underground runners in exactly the same manner as Kentucky Blue Grass. Adapted to poorer soils. Fairly acid tolerant. Requires less moisture than Kentucky Blue Grass. Does well in shade or sun. Cold resistant. Germinates in 8 to 12 days. 600,000 seeds per pound. Used in lawns, fairways, pastures, airports and athletic fields.

ALTA FESCUE. Perennial. Developed by the U. S. Dept. of Agriculture at Oregon State College. Medium dark green. Wider bladed than Kentucky Blue Grass. Very deep rooted, but develops root system slowly in first year. Survives drought. Does well in shaded areas and on poor soil. Germinates in 7 to 12 days. Has proven itself to be perfectly winter hardy in this climate and is being used in a limited way in mixtures of seeds for athletic fields, airports, playgrounds and pastures. Because of its deep root system it is able to withstand heavy wear. 230,000 seeds per pound.

ASTORIA BENT GRASS. Perennial. A strain of Colonial Bent. Very fine, rich green leaf blade. Cold resistant. Fairly tolerant of dry conditions. Spreads by underground runners. Does well in sun or shade. Tolerates acid soils. Susceptible to brown patch and dollar spot. Germinates in 9 to 14 days. 8,700,000 seeds per pound. Used in lawns and on fairways.

Mail Orders are Solicited and Prices Will be Quoted on Request.

FAESY & BESTHOFF PRODUCTS

15-30-15 STARTER-GROWER. All purpose completely mineralized all soluble plant food. Applied as a solution in transplanting or side-dressing. 3-lb. bags.

BROADLEAF HIGH ORGANIC 6-10-4. A 33 1/3% organic completely mineralized fertilizer for acid-loving plants. 5-lb., 10-lb., and 25-lb. bags.



TERMITKIL. Unadulterated ground penetrant, formula recommended by the U. S. Dept. of Agriculture. 1-gal. cans.

BONE MEAL. Pure steamed, guaranteed 2.47% Nitrogen, 23% Total Phosphoric Acid. A favorite organic, slow-acting fertilizer for bulbs, perennial plants, trees, flowering shrubs and for all year round lawn application. Particularly effective in stimulating strong root systems. 5-lb., 10-lb. and 50-lb. bags. Prices on request.

BONE MEAL

FERTILIZER GRADE
PURE, STEAMED

For gardens, grass,
shrubs, trees
and potted plants

F&B

LONGHORN BRAND CATTLE MANURE. A safe 100% organic natural plant food and soil builder. 5-lb. and 10-lb. bags.

ROSE FOOD 8-10-4. Specially compounded to contain 50% organic matter for the discriminating Rose fancier and grower. Completely mineralized, 100% plant food carrier, no fillers, encourages brilliant colors, vigorous foliage and resistance to disease. 5-lb., 10-lb. and 25-lb. bags.

**ROSE FOOD
8-10-4**

50% organic matter
completely mineralized
no filler

F&B

Seaboard

LAWN PRODUCTS

for establishing and maintaining
more luxuriant lawns

Seaboard's Grass Seed

MERION MIXTURE

For the fine lawn fancier. Contains 40% Merion Bluegrass plus Pennlawn Fescue and other fine leaved fescues. A 100% perennial mixture. Arasan treated. 2 lbs. covers 1000 sq. ft.

	Retail
1 lb. (24)	2.59
5 lb. (6)	12.25
25 lb.	57.85
50 lb.	110.00



FAVORITE

An ideal mixture for activity areas or lawns subject to hard usage. Produces a good sturdy lawn in a short time. Arasan treated. 4 lbs. covers 1000 sq. ft.

	Retail
1 lb. (24) .....	.89
5 lb. (6)	3.98
25 lb.	18.50
50 lb.	34.00



HORMOLAWN

For the homeowner who wants the finest. The ultimate in lawn perfection. Compounded of 100% fine leaved perennial grasses. Arasan treated. 2 lbs. covers 1000 sq. ft.

	Retail
1 lb. (24)	1.69
5 lb. (6)	7.85
25 lb.	36.75
50 lb.	70.00



VILLA GREEN

Ideal where quick results are needed. Popular with homeowners and contractors where seeding must be done early. 6 lbs. covers 1000 sq. ft.

	Retail
1 lb. (24) .....	.69
5 lb. (6)	2.89
25 lb.	12.85
50 lb.	23.50



PATRIOT

An extremely desirable blend of 100% perennial grasses for the homeowner who desires a sturdy lawn for both looks and wear. Arasan treated. 3 lbs. covers 1000 sq. ft. Meets N. J. requirements.

	Retail
1 lb. (24)	1.29
5 lb. (6)	5.95
25 lb.	28.00
50 lb.	52.00



SHADY PLACE

A superior 100% perennial mixture. Formulated to give best results in shaded areas. Arasan treated. 3 lbs. covers 1000 sq. ft.

	Retail
1 lb. (24)	1.19
5 lb. (6)	5.49
25 lb.	25.00
50 lb.	47.00





**SEABOARD'S
LAWN AND
PLANT FOOD**

Analysis 20-10-5

- Non-Burning
- 50% Organic Nitrogen—N-Dure
- Lightweight—Easy Carry Bags
- All-Purpose
- Odorless

	Retail
5000 sq. ft. pkg.	4.75 ea.
2500 sq. ft. pkg.	2.95 ea.



**SEABOARD'S
LAWN FEEDING
WEED KILLER**

Analysis 10-6-4 Plus 2-4D

- Kills Weeds
- Feeds Grass
- Non-Burning
- 50% Organic Nitrogen—N-Dure
- Lightweight—Easy Carry Bags
- Odorless

	Retail
5000 sq. ft. pkg.	5.75 ea.
2500 sq. ft. pkg.	3.30 ea.



**SEABOARD'S
CRABGRASS
SEED KILLER**

- Kills Crabgrass Seeds
- Eliminates Grubs
- Non-Burning
- Lightweight—Easy Carry Bags
- Ready to Apply

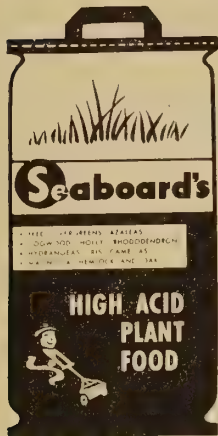
	Retail
2500 sq. ft. pkg.	9.75 ea.
1000 sq. ft. pkg.	4.75 ea.



**SEABOARD'S
CRABGRASS
BROADLEAF
WEED KILLER**

- Kills Crabgrass Plants and Broadleaf Weeds
- Non-Burning
- Lightweight—Easy Carry Bags
- Ready to Apply

	Retail
5000 sq. ft. pkg.	6.95 ea.
2500 sq. ft. pkg.	3.95 ea.



**SEABOARD'S
HI-ACID 8-14-6
PLANT FOOD**

- Feeds Acid-Loving Flowers, Trees and Shrubs including Evergreens, Holly, Rhododendron, Azaleas
- Non-Burning
- 50% Organic Nitrogen
- Clean—Odorless
- Ready to Apply

	Retail
	2.45 ea.



**SEABOARD'S
FUNGICIDAL
BROADLEAF
WEED KILLER**

- Kills Dandelion, Plantain, Buckhorn, Mustard and many other broadleaf weeds.
- Controls Brown Patch, Dollar Spot, Leaf Spot, and Snow Mold.

	Retail
5000 sq. ft. pkg. . .	3.75
2500 sq. ft. pkg. . .	1.95

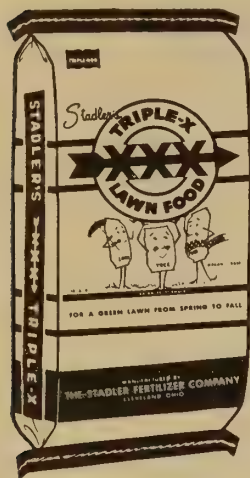
Seaboard Seed Company

Philadelphia, Pa. and Bristol, Ill.

For Better Lawns and Gardens

SPECIAL PLANT FOODS AND FERTILIZERS

On items where prices are not listed, please ask for current market quotation on quantity desired. All prices will be quoted f.o.b. Grand Rapids, Michigan.



STADLER'S TRIPLE XXX. This popular lawn food is a 10-6-4 analysis with an all organic base, which stimulates lush growth and builds up deep root growth and humus. 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. bags.

STADLER'S GARDEN GRO. Analysis 4-12-4. Recommended for vegetables and flowers, shrubbery and trees. 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. bags.

STADLER'S ROSE FOOD. Analysis 7-8-5. Use this deluxe, completely balanced food for best results in Rose culture. Includes the necessary organic materials with all vital minerals added. 5-lb., 10-lb., 25-lb., and 100-lb. bags.



TURF FOOD (Loma). Another complete plant food with an analysis of 10-6-4, plus organic material for general lawn and garden use. 40-lb. and 80-lb. bags.

LOMA. Analysis 8-8-8. A mineralized concentrate for special feeding. Packaged only in 100-lb. bags.

LOMA. Analysis 5-10-5. Also a concentrate containing all

trace elements. Packaged only in 80-lb. bags.

Loma
THE QUALITY PLANT FOOD



VIGORO. A complete plant food for general use. In 1-lb., 5-lb., 10-lb., 25-lb., and 50-lb. bags.

GOLDEN VIGORO. Does not burn In 50-lb. bags only.

SWIFT'S RED STEER FERTILIZERS. All standard analyses. 80-lb. bags. Ask for current prices.

SWIFT'S SPECIAL 12-12-12. Used extensively for early spring feeding of lawns and gardens. 80-lb. bags.

LAWN & GARDEN CYANAMID. This is a unique product that can be used in many ways. It contains 20% nitrogen which makes it an excellent concentrated plant food for both old and new lawn building. Highly recommended for Asparagus feeding and other general garden use. Used for compost building and is an excellent weed control when first applied.

PLANT MARVEL



Analysis 12-31-14. Applied in liquid form acts as a starter solution, immediately supplying the three major elements of nitrogen, phosphoric acid and potash, as well as the essential minor elements needed in just the proper proportions that the young plants can most effectively use them.

Plant Marvel used as a solution in transplanting Tomato plants to the field will reduce shock to the plants and practically eliminate wilting.

Plant Marvel stimulates greater root development, faster growth, earlier maturity and more uniform ripening of the Tomatoes. Yields have been increased from one to four tons per acre.

Trial size, 35c; 1/2 lb., 75c; 1 lb., \$1.25; 5 lbs., \$4.50; 10 lbs., \$8.75.

ORGANIC FERTILIZERS

MILORGANITE is a natural unadulterated plant food. The effects on growth are long lasting, high in purity, non-burning and is easy to use. Recommended for lawns, trees, shrubbery and gardens.

SHEEP MANURE. Is processed and weed free. In 5-lb., 10-lb., 25-lb., and 50-lb. bags.

CATTLE MANURE. Is processed and weed free, and will not burn. Recommended for Rose Culture. In 5-lb., 10-lb., 25-lb., and 50-lb. bags.

DRICONURE. A balanced combination of processed manures and peat moss. A real soil builder. In 1-lb., 7 1/2-lb., 25-lb., 50-lb., and 80-lb. bags.

BONEMEAL. Steamed. An excellent source of organic phosphate, recommended for Rose culture and bulbs. In 5-lb., 10-lb., 25-lb., 50-lb., and 100-lb. bags.

CONCENTRATES AND SOIL CONDITIONERS

Ammonium Nitrate
Nitrate of Soda
Sulphate of Ammonia

Super Phosphate
Muriate of Potash

Soil Conditioners

Borax
Ground Limestone
Phosphate Rock
Hybrotite
Manganese Sulphate
Aluminum Sulphate
Copper Sulphate
Zinc Sulphate
Iron Sulphate (Ferrous)

Magnesium (Epsom Salt)
Cyanamid
Krillium
Green Gold
Soil Life
Fertilife
Peat Moss
Vermiculite

Test Your Soil

ONLY
\$3⁹⁸

For this famous



Sudbury Soil Test Kit

It's first aid to amateurs for finer lawns, flowers, vegetables—the fancier's guide to prize-winning blooms. Shows how to give your soil the right kinds and amounts of fertilizers for all your flowers, vegetables, etc. (125 listed). Also whether lime is needed and how much. Easy to use, intensely interesting, no knowledge of chemistry needed. Ten-minute test tells more than a lifetime of gardening.

SPECIAL—complete equipment, instructions and solutions for 20 tests, for nitrogen, phosphorus, potash, acidity.

2 Minute Acidity Kit Model\$1.98
Home Garden Model (illustrated) .. 3.98
Popular Gardening Model J.R. "C" .. 6.98
Horticultural Model B15.95
DeLux Professional Model A29.95
Not Postpaid

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SOLUBLE FERTILIZERS

STIM-U-PLANT

COMPLETE



STIM-U-PLANT Potting Soil. A rich fresh loam scientifically prepared with the right amount of

organic matter to make a ready to use RICH SOIL, makes all plants grow and blossom. 1½-lb. pkg., 25c; 4-lb. pkg., 49c.

STIM-U-PLANT African Violet Soil. Potting soil. A special soil prepared for this particular plant. 1½-lb. pkg., 25c; 4-lb. pkg., 49c.

STIM-U-PLANT Plant Tablets. The original plant tablets to pep up your plants. 30 tablets, 25c; 100 tablets, 75c.

STIM-U-PLANT African Violet Food. Promotes growth and blooming. Used and tested by commercial growers for several years. ¾ oz., 15c; 3 ozs., 35c; 7 ozs., 60c.

STIM-U-PLANT Peat Humus. A highly organic material in demand for conditioning soil and making special soil mixtures. 1-lb. pkg., 25c; 3-lb. pkg., 49c.

STIM-U-PLANT ROSE FOOD.

This special Rose Food is formulated for use only on Roses. It is made to feed the Rose bush over a long period of time and produces blooms with beautiful color. 5-lb. bag, 79c; 10-lb. bag, \$1.50; 25-lb. bag, \$2.75, not postpaid.

STIM-U-PLANT SELKAPS. No messy spray to damage plants. Controls insects on African Violets, Geraniums, Ferns, Ivy, Philodendrons, Mums or Cyclamen. 24 5-gr. capsules (with full directions in box), \$1.00; Pkg. of 5 5-gr. capsules, 25c.

IVY PHILODENDRON PLANT FOOD. 24 capsules, 25c.

STIM-U-PLANT ROOTING MEDIUM. For African Violets. Soak thoroughly with water. Insert leaf or cutting, pressing lightly around leaf. Do not pack. 14-oz. net weight, 49c.

HYPONEX

Analysis 7-6-19

Grows superior plants in soil, sand or water (contains Vitamin B-1.) With Hyponex and water, plants grow luxuriantly, flower abundantly, and develop sturdy growth regardless of the poor-ness or sterility of the soil. Hyponex is ideal for hydroponics—the science of growing plants without soil. A teaspoonful makes a gallon of liquid plant food, which is enough for one watering of house plants in the average home. A 1-lb. can is sufficient to make 100 gallons.

1-oz. pkt., 10c; 3-oz. can, 25c; 5-oz. can, 59c; 1-lb. can, \$1.00; 10-lb. drum, \$8.00; 25-lb. drum, \$15.00; 100-lb. drum, \$40.00.

F.O.B. Grand Rapids.



ALASKA



Fish Fertilizer

ALL FISH

100% Organic

- 1 GAL. EQUIVALENT TO 200 LBS. OF RAW FISH
- 1 TABLESPOON MAKES 1 GALLON
- DOG AND CAT REPELLENT ADDED
- THE ORIGINAL AND ONLY DEODORIZED FISH FERTILIZER
- USE INDOORS AND OUTDOORS
- FOR ACID AND ANTI-ACID PLANTS
- NO FILLERS OR CHEMICAL BOOSTERS ADDED

MONEY BACK GUARANTEE

LOOK FOR THE TOTEM POLE TO BE SURE!

Amazing results have been obtained this past season by the use of this NEW soluble organic fertilizer. Complete directions on each bottle. We strongly recommend you use some of this marvelous new soluble plant food this season. Try it on lawn, flowers, vegetable gardens, African Violets, and other indoor potted plants. Guaranteed analysis:

Organic Nitrogen 4%, Ammonic Nitrogen 1%, Total Nitrogen 5%, Available Phosphoric Acid 2%, Water Soluble Potash 2%, All of the above derived from fish viscera. Oil of Citronella has been added to prevent dogs and cats being attracted.

4-oz. bottle	\$0.49
8-oz. bottle	.85
1-pt. bottle	1.25
1-qt. bottle	2.25
½ gallon	3.75
1 gallon	6.50

GARDEN LIFE. Analysis 10-52-17. This very high analysis producing a total of 79% active plant food units has placed this soluble plant food in a class by itself. Its very high phosphoric content makes it a marvelous transplanting stimulator and its well balanced formula adapts it for all other general-purpose feeding. 2 ozs., 25c; 5 ozs., 50c; 14 ozs., \$1.00; 2 lbs., \$2.25; 5 lbs., \$4.50; 25 lbs., \$19.50.

KEM LIQUID PLANT FOOD. 4 ozs., 10c; 12 ozs., 25c; 1 qt., 50c; 1 gal., \$1.00.

Ra-Pid-Gro Analysis 23-21-17

One of the best soluble fertilizers to use as a foliage plant food. It is well balanced for feeding all types of plants and shrubs. A miracle aid for flowers, vegetables, trees, shrubs and lawns. Used extensively on house plants. 2 ozs., 25c; 8 ozs., 75c; 1 lb., \$1.30; 2 lbs., \$2.50; 5 lbs., \$4.75; 10 lbs., \$9.00; 25-lb. drum, \$22.50; 50-lb. bags, \$42.00.



RA-PID-GRO

The Original Liquid Plant Food

PLANT SHOOT. A formulation of GIBREL. A miracle growth stimulant containing potassium salts, 1000 parts to a million, producing bigger plants, larger blooms, lush, greener lawns. Complete kit, nothing else to buy and no guesswork. Easy and simple directions for amazing results. **KITS.** Small size, \$2.98; large size, \$6.98. Aerosol bombs, 6-oz. size, \$1.00; 12-oz. size, \$1.79.

NOTICE. All prices quoted on this page are subject to change without notice and are f.o.b. Grand Rapids. Refer to postal rate on page 3 for mailing cost.

GREENHOUSE SUPPLIES

Insecticides

Fulex Smoke Fumigators

These effective killers of greenhouse pests are used on an estimated cubic foot basis. Complete instructions for using are clearly printed on each pressure fumigator.

	1000 cu. ft.	2000 cu. ft.	5000 cu. ft.	10,000 cu. ft.	20,000 cu. ft.
PARATHION. Case of 24	\$11.50	\$11.50	\$14.50	\$17.00	\$26.00
Use on red spiders, aphids and thrips					
Single cans .....	.50	.50	.59	.75	1.00
APHID SMOKE. Case of 24	11.00	11.00	14.00	17.00	25.00
Single can .....	.50	.50	.59	.70	1.10
Use for adult white fly on florist crop					
SPIDER MITE. Case of 24	11.50	11.50	14.50	19.00	31.00
Single cans .....	.50	.50	.59	.80	1.30
Used on red spider including parathion resistant species on Carnations, Mums and Snaps.					
NICOTINE. Case of 12				9.60	12.20
Single can				1.00	1.50
Use in greenhouse only.					

Prices on the above are f.o.b. Grand Rapids.

Lethalaire Greenhouse Aerosols

Prices quoted subject to change and f.o.b. Grand Rapids. Cylinder returnable, but deposit required as listed.

G-54. 10% Parathion. Net weight 4 lbs.	\$ 9.00
Cylinder deposit	3.75
Shipping weight 12 lbs.	
G-60. 10% Aramite. Net weight 4 lbs.	12.00
Cylinder deposit	3.75
Shipping weight 12 lbs.	
G-61. 2% Lindane. Net weight 4 lbs.	12.50
Cylinder deposit	3.75
Shipping weight 12 lbs.	
V-21. .5% Pyrethrum. Non-toxic to animals or humans when manufac-	
turer's directions are followed. Net weight 5 lbs.	14.50
Cylinder deposit	3.75
Shipping weight 13 lbs.	

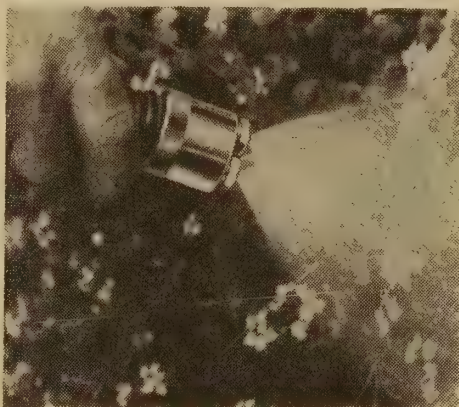
Glazing Materials

GARLANITE PUTTY, NATURAL	
1 gal.	\$ 4.80
5-gal. lots—per gal.	4.65
GARLAND SHADING COMPOUND, GREEN	
25-lb. bags	6.00
50-lb. bags	10.50
100-lb. bags	20.00
GARLAND SHADING COMPOUND, WHITE	
25-lb. bags	6.00
50-lb. bags	9.50
100-lb. bags	18.00
GARLAND OIL SEALER	
1 gal.	4.65
5-gal. lots—per gal.	4.50
COPEX No. 77	
1 gal.	3.85
TUNG-WHITE. For bar painter. If used with a brush	
it must be cut with 25% linseed oil and turpentine	
to make it brushable.	
1 gal.	6.20
GREENHOUSE STAPLES No. 2. 1000 count	\$1.50
ZINC GLAZING POINTS. 3/4 inch. 1 lb.	1.25

Fogg-it Nozzle

This is the answer to plant growers and florists need for a nozzle which will break water into a fine mist or fog-like spray for watering seed beds, new plantings, young plants and all tender plants such as Fuchsias, Begonias, etc.

Will not wash away seed, soil or fertilizer. Works efficiently with high or low water pressure on any standard garden hose. Price \$1.95, not postpaid.



MAKE YOUR GARDEN
FERTILE, LOOSE & LOAMY



WITH AN ALL-PURPOSE W-W COMPOST GRINDER and SOIL SHREDDER

Work miracles with your soil right at the spot with this portable machine that is famous as the gardener's best friend. It shreds, grinds, and screens compost, sod, and leaves, as well as prepares organic matter for compost and mulch. It makes potting soil without additional attachments and mixes compost or fertilizer with the soil. Trash is separated from wanted material. Thousands in use.

Prices start at \$129.00, plus freight. A size and model for every purpose. Write for complete price list and description of all models.

Soil Fumigants

The Answer To Your "Damp-Off" Problem Is

Pano-drench 4

PANO-DRENCH is a highly concentrated liquid and is easy to apply. Used for flats, pots, benches and outside beds. A dilution of 1 to 2 teaspoons of concentrate to 3 gallons of water produces effective control when applied 24 hours before sowing. One 4-oz. bottle makes 72 gallons of solution and treats up to 200 flats or 200 to 400 square feet. Prices postpaid: 1 oz., \$1.95; 4 oz., \$5.95; 16 oz., \$19.20.

LARVACIDE (Chloropicrin Tear Gas). A complete soil sterilization for all insects and soil diseases. Offers effective weed control if applied when weed seeds are not dormant. Write for estimated costs of Larvacide sterilization, giving us approximate dimensions in square feet of area to be treated. Also sold in 1-lb. dispenser bottles for use in small areas.

PESTMASTER. Methyl bromide 98%, chloropicrin 2%. These 1-lb. metal, sealed bombs are used with a special applicator for fumigating compost and seed bed soils. We will quote prices on bombs, applicators and visqueen covers needed for a given estimated cubic foot bed or pile of compost.

FORMALDEHYDE. In gallon containers—containers extra at cost. Widely used for soil fumigating, seed treatment purposes. Prices and shipping information on request.

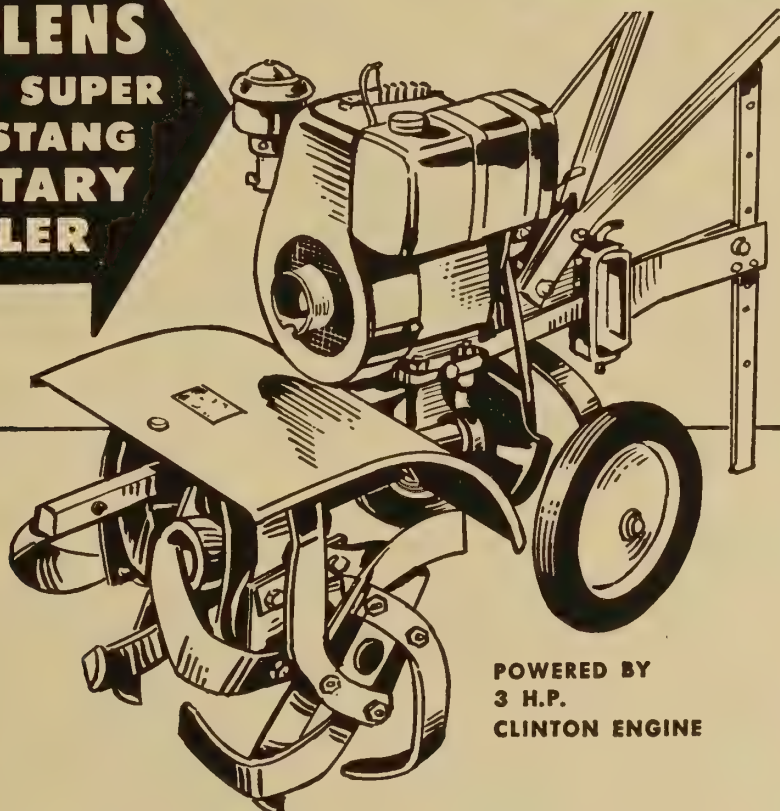
VisQueen
T. M.

VISQUEEN (Polyethylene). We stock this plastic material, which is more widely used each year as a glass substitute for temporary greenhouses, boat covers, etc. We offer black or clear, .004 and .006 m/m gauge in 100-ft. roll lengths with widths of 3 ft.; 4 ft.; 8 ft.; 10 ft.; 12 ft.; 16 ft.; and 20 ft. We can cut certain widths in shorter lengths. Write for prices.

COSTS LESS than separate units

**Prepares the Seed Bed
in one Operation!**

**The New
BOLENS
M-E SUPER
MUSTANG
ROTARY
TILLER**



**POWERED BY
3 H.P.
CLINTON ENGINE**

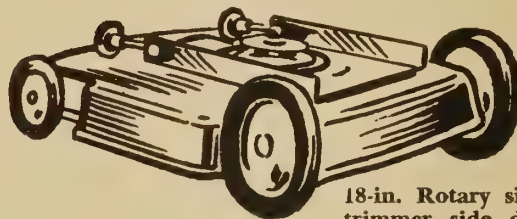
The Super-Mustang Tills, Cultivates, Weeds and Mulches in one operation. Does a year-round job with six Quick-hitch attachments. Exclusive Universal Tines, self-sharpening and guaranteed against breakage. Let us show it to you and demonstrate its operation.

**BOLENS
Power-Pak
COMBINATION
ROTARY TILLER
and MOWER**



18-in. Rotary
Tiller with 12
carbon steel
hoe blades.

Now combined in one interchangeable unit, you have the perfect Rotary Tiller and Power Mower—all the equipment you need for the care of your garden and lawn.



18-in. Rotary side
trimmer side dis-
charge mower.

Within 60 seconds you change from a powerful Rotary Mower to a Rotary Tiller—without tools. See it today! Get a free demonstration.

PLANET JR. TOOLS

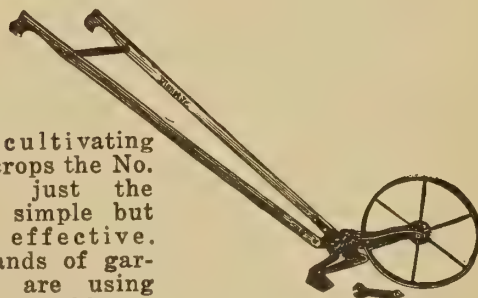
No. 300 Planet Jr. Seeder

The ideal machine for the market gardener. Drops evenly and accurately any vegetable seed from the smallest up to Bush Lima Beans. New style waved feed wheel does not crush or break Beans or Peas. Hopper can be removed in a few seconds to empty leftover seeds.



No. 18 Single Wheel Hoe

For cultivating small crops the No. 18 is just the thing; simple but very effective. Thousands of gardeners are using them profitably.



Niagara



Fungicides

KOLOFOG and KOLOSPRAY. Fused bentonite sulphur product. Excellent sulphur fungicides for fruit diseases. Non-caustic, adhesive.

NIACIDE. A new organic fungicide for use on Apples and Tomatoes.

PURATIZED AGRICULTURAL and APPLE SPRAYS. Organic mercury spray for Apple scab.

KOLO 100. A sulphur-naphtha-quinone combination for Apple scab and brown rot on Peaches.

CARBAMATE. A formulation of ferbam for many fruit diseases.

C-O-C-S. Copper oxychloride sulphate (55% copper) for late and early blight and certain other diseases of Potatoes, Tomatoes and other vegetables. Available as a spray and in various dust combinations.

SOLUBLE SULPHUR. Dormant spray for Peaches.

KOLODUST. Fused bentonite sulphur dust for Apple scab, brown rot on stone fruits and various other fruit diseases.

NABAM. Liquid zinc dithiocarbamate for Potatoes, Tomatoes and certain other vegetable crops.

Weed Killers and Plant Hormones

CHLORO, I. P. C. Liquid and granular forms.

NIAGARA STIK. Spray and dust formulations of naphthalene acetic acid for thinning and preharvest anti-drop applications on Apples.

COMBINATION DUST AND SPRAY SPECIALTIES. Insecticide-fungicide combinations made for specific use on specified crops.

Dust and spray formulations available for Cucumbers, Melons, Potatoes, Tomatoes, Onions, Celery, Asparagus, Strawberries, Blueberries, Mint, Apples, Peaches, Cherries, Grapes, etc.

Insecticides

LEAD ARSENATE.

DDT. 50% wettable powder; 25 and 33% liquid; 3, 5, and 10% dusts.

CHLORDANE. 40% wettable powder; 72% liquid; 5% dusts.

PARATHION. 15% wettable powder; 25% liquid; 1%, 1.5% and 2% dusts.

PYRENONE No. 606 SPRAY. Used as a grain protectant and fruit fly spray.

PYRENONE DUST. Used on vegetable crops.

TEPP. 40% tetra ethyl pyrophosphate spray.

DDD. 50% wettable powder; 25% liquid; 5% dust.

ROTENONE. 5% wettable powder; .75%, 1% and 2.50% dusts.

DINITRO DRY. 40% dinitro ortho cresol for dormant spraying.

LINDANE. 25% wettable powder; 25% liquid; 1% dust.

MALATHION. 25% wettable powder; 50% liquid; 4% dusts.

NIAGARAMITE. 15% aramite spray and 2% dust for mites and red spiders.

DIELDRIN AND ALDRIN. Liquid concentrate, wettable powders, dusts and granulated formulations.

Dusters

A complete line of orchard and row crop dusting machines with especially adapted units for muck crops, Blueberries and large capacity fruit dusters. Write for descriptive literature.



**NIAGARA
CYCLO-
JUNIOR
DUSTER**

DIPHACIN

This new sensational control of rats and mice is really a solution to this widespread pest problem. Diphacin has no equal on the market and is the only rodenticide that is vacuum packed to stay fresh, effective and appealing to rats and mice. They eat it readily and die quickly. If this is not available at your dealers, write us for prices and mailing.

4-oz. can, 89c;
1-lb. can, \$1.69.



SWEP

A new weed killer that will make home gardening and lawn care easier. Just apply to weed free soil surface and it prevents weeds from growing. SWEP controls annual grasses, including crab-grass and many broad leaf weeds. This easy handling granular material may be used on Rose beds, along Privet Hedges, Evergreens, Mums, Gladioli and in vegetable gardens for weed control on Snap Beans, Peas, Carrot, Onion, Lettuce and Cranberries.

Agri-Tox Respirator

U.S.D.A. accepted for protection against demeton (systox), parathion, aldrin, dieldrin, chlordane, EPN, nicotine, Tepp, HETP and phosdrin. Fits face snugly, adjustable elastic headbands, low breathing resistance, and can be worn with goggles.

Price complete with two No. 11A Cartridges and six Part R490 Filters, \$5.25 each.

No. 11A Cartridges, box of 4, \$2.00 per box.

Part R490 Filters, box of 10, \$1.00 per box.

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INSECTICIDES

TREE TANGLEFOOT. 6-oz. tube, 85c;
1 lb., \$1.50; 5 lbs., \$7.00.



TREETOX. 14 ozs.,
\$1.25.



RED ARROW
2 ozs., 75c;
4 ozs., \$1.25;
1 qt., \$5.50;
1 gal., \$18.25.



EVER GREEN
Garden Spray
Retail prices,
1 oz., 35c;
6 ozs., \$1.15;
1 pt., \$2.45;
1 qt., \$4.10;

1 gallon, to commercial growers,
\$12.60.



MOSQUITO XTERMINATOR. Now you
can enjoy pleasant evenings out-of-doors. No
more pesky mosquitoes to annoy you! Price,
1 lb., \$2.00.

WE RECOMMEND TRI-OGEN



The all-purpose spray for
Rose plants. Insecticide,
fungicide and plant stimu-
lant all in one.

	Prices
"E" Kits	\$ 2.00
"A" Kits	2.75
"B" Kits	6.50
"C" Kits	10.50

TRI-OGEN ROSE DUST is especially recommended as a
control for certain insects, but as a fungicide it
assists in the control of certain mildews and black
spot on Roses. Comes in both the 1-lb. and 5-lb.
packages. Prices will be quoted on request.

TOBACCO DUST. 5-lb. bags\$0.83

CYANOGENAS

CYANOGENAS A DUST. Calcium cyanide for killing all
rodents. 1-lb. cans, 5-lb. cans.

CYANOGENAS G FUMIGANT. For greenhouse fumiga-
tion or general fumigation of all enclosed spaces.
4-oz. cans, 5-lb. cans, 25-lb. drums.

SEED DISINFECTANTS

ARASAN. 3/4 oz., 25c; 8 ozs., \$1.00; 2 lbs., \$3.20.

CERESAN. New improved for basal
and bulb rot on gladioli. 1 lb.,
\$1.75.



SEMESAN. For veg-
etable and flower
seeds. 4 ozs., \$1.80;
12 ozs., \$4.95.



SPERGON. 1 oz., 25c; 5 ozs., \$1.00;
1 lb., \$1.25.

YELLOW CUPROCIDE. 3-lb. bags, \$3.15.

SEMESAN BEL. Dip treatment for Potatoes. 3 ozs., \$1.05;
1 lb., \$3.60; 4 lbs., \$10.65.

HORMONES

HORMEX. (Concentrate.)	
Gold Label	\$1.39
Silver Label	2.49
BLOSSOM-SET	
4 ozs.	\$0.75
1 pt.	1.75
BERRY-SET	
12 ozs. (makes 48 gallons)	\$3.00
VITAMIN B-1	
100 tablets	\$0.69

ROOTONE

1/4 oz. (400 cuttings)	\$0.35
2 ozs.	1.25
ROOTONE No. 10. For woody cuttings.	
2 ozs.	\$2.00

TRANSPLANTONE	
1/2 oz.	\$0.25
3 ozs.	1.00



REPELLENTS FOR RODENTS AND
PREDATORY ANIMALS

MO-GO. Kills moles and gophers.	
1 1/8 oz.	\$0.50
3 1/2 ozs.	1.00
1 lb.	3.75
D-CON Concentrate (Warfarin)	
8 ozs.	\$2.98
D-CON Ready Mix (Warfarin)	
1 lb.	1.69
5 lbs.	5.98
DOGS OFF	
3-oz. bottle	\$0.75

KILL MICE	
Pkt., 25c; 1-lb. box	\$1.00
ZIP. A repellent for rabbits and deer.	
1 qt.	\$2.95
1 gal.	8.75
FLYING DISCS. 10 in a pkg. with complete in- structions	\$0.25
CHAPERONE	
4 ozs.	\$0.89
8 ozs.	1.29
GOODRITE NO-NIB'L RABBIT REPELLENT	
6-oz. size	\$1.25

Insecticides



Antrol Ant Traps

The safest Ant Killer to use around children or pets. Contain Thallium, attract sweet and grease eating ants. 20c each; set of 3 traps 49c.



Antrol African Violet and House Plant Insect Bomb

Kills mealy bugs, mites, aphids, exposed thrips, white flies. This handy insecticide-miticide protects house plants from insects that wither and discolor African Violets, Ivy, Bracken, Philodendron, Rubber Plants and similar plants. Easy to use. Just push button.

6-oz. Aerosol 89c.



Antrol Ready-Filled Feeders

Handy, economical, refillable feeders for effective extermination of sweet and grease eating ants. Attracted by bait, they carry it back to nest as food. 15c each; set of 4 feeders 50c.



Ridz Dog Repellent

Keep dogs off your shrubs, plants, trash cans, fences, etc. Ridz is guaranteed to work. Easy-to-use aerosol. No mixing, no pouring, no sprayer to buy.

10-oz. Aerosol \$1.49.



Antrol Syrup Refill

For refilling feeders. 4-oz. bottle 25c.



Snarol

(Meal or Pellets)

For slugs and snails. Metaldehyde-Arsenical bait lures them from plants and shrubs and kills them fast. Meal form or pellets.

1 lb. 50c; 2½ lbs. \$1.00; 6 lbs. \$2.00.



Antrol Ant Spray

Residual spray containing potent Chlor-dane. Kills ants, roaches, Japanese beetle grubs, termites, chiggers, lawn moths. Handy sprayer attached.

Pt. size 89c. Qt. size \$1.19.



Lawntrol Granules with Dieldrin

Most effective lawn insecticide, with long lasting residual effect. Kills lawn moths, ants, cutworms, earwigs, sow-bugs (pillbugs), and Japanese beetle grubs. Easy to use, can be broadcast from handy shaker package or mixed with fertilizer and applied with a spreader.

1 lb. 69c; 2 lbs., \$1.25; 5 lbs., \$2.98.



Antrol "Multi-Purpose" Dust

Use this multi-purpose wettable powder on Roses, flowers, vegetables, shrubs and fruit trees. Contains malathion, captan, methoxychlor and sulphur. Controls black spot and powdery mildew. Kills aphids, Japanese beetles, mites, thrips, earwigs and tent caterpillars. Amazing results when used as a dust or mixed with water and sprayed.

10-oz. plastic squeeze duster\$1.39

1-lb. carton refill 1.49



Black Flag Push-Button Insect Bomb

Easy finger pressure on push button releases DDT, Allethrin, Methoxychlor and Piperonyl Butoxide for quick knock-down and residual killing action.

New Giant size, 14 ozs., \$1.39.



Antrol Push-Button Rose Spray Flower Bomb

Just push the button of this original and leading Rose bomb to kill aphids, thrips, leaf-hoppers, mites and Japanese beetles; also controls black spot and powdery mildew.

15-oz. size \$1.59.



Flyded Push-Button Insect Killer

Kills flies, mosquitoes, flying moths, gnats. Non-inflammable. Easy to use. Just push the button.

Medium size—11 ozs.\$0.79

Giant size—14 ozs.98

NOTICE. All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.

BIRD Vita-Bands

VITA-BAND D contains root growth until grower chooses to let root through Band. Only quick, slight pressure is needed to crack Band. Do not remove Vita-Band "D" when transplanting. Band disintegrates in the soil, permitting free growth of roots from time of transplant. Nutrient-treated with quickly available plant food.

VITA-BAND 10 for short growing periods. Will usually contain root growth up to approximately 8 to 10 weeks. Nutrient-treated with quickly available plant food . . . your judgment determines need for additional feeding. Vita-Band 10 is identical to Vita-Band "D" except Vita-Band 10 is removed at time of transplant. Vita-Band "D" is not.



VITA-BAND "D"									
	1½x1½	1¾x1¾	2x2	2x2	2½x2½	3x3	4x4	4x4	
Price	x2½	x2½	x2½	x3	x3	x3	x3	x4	
per 1000	..\$4.85	\$5.15	\$5.35	\$6.05	\$6.30	\$7.05	\$9.25	\$11.60	
Quantity									
per case	.. 2000	2000	2000	2000	2000	2000	1000	1000	
Weight per									
case—lbs.	18	21	23	28	34	40	27	35	

VITA-BAND 10									
	1½x1½	1¾x1¾	2x2	2x2	2½x2½	3x3	4x4	4x4	
Price	x2½	x2½	x2½	x3	x3	x3	x3	x4	
per 1000	..\$4.70	\$5.00	\$5.25	\$5.75	\$6.25	\$6.90	\$9.00	\$11.25	
Quantity									
per case	.. 2000	2000	2000	2000	2000	1000	1000	500	
Weight per									
case—lbs.	33	38	42	51	63	37	50	33	

VITA-GREEN POTS

Nutrient treated for both growing and shipping.									
Size 2¼ in., packed 48 to carton	.....\$0.89								
Size 3 in., packed 48 to carton	.....1.39								
	2¼ in.	2½ in.	3 in.	3½ in.	4 in.				
Price per 1000	....\$7.25	\$8.35	\$13.40	\$14.95	\$17.95				
Quantity per case	.. 2000	2000	2000	1000	1000				
Weight per case—lbs.	17	22	31	20	31				



BIRD RED & VITA-POTS

RED: For shipping only. Not recommended for growing. Light weight and sturdily made to protect rootball from breakage—inner wax coating prevents drying out. A "must" to preserve the top quality of your plants in transit. Delivering quality promotes repeat business.

VITA-POTS: For growing and shipping—they are nutrient treated. Growing results are similar to Vita-Bands. VITA-POTS prevent rootball disturbance. No handling and storage

of heavy pots. VITA-POTS can be packed quickly and easily for shipment.									
Prices per 1000									
	2 in.	2¼ in.	2½ in.	3 in.	3½ in.	4 in.	5 in.	6 in.	
RED	\$ 9.00	\$ 9.00	\$ 9.10	\$ 9.60	\$12.80	\$15.50	\$19.00	\$23.40	
VITA-POTS	\$16.05	\$16.45	\$17.05	\$19.15		\$28.25	\$36.75		

NEW BIRD PEAT POTS

A new rugged transplanting and shipping pot of rich nutrient content which feeds the plant right from the start and continues until the pot has disintegrated in transplanting. While this new pot has free root penetrating features, still it is very sturdy in construction, which solves the problem of chipping or cracking in handling or shipping. These should be ordered early.

	2¼ in.	3 in.	2½ in.	3 in.	
	round	round	square	square	
Price per 1000	....\$7.25	\$13.40	\$9.75	\$15.45	
Quantity per case	.....2000	2000	2000	2000	
Weight per case—lbs.	.....22	38	24	42	

SQUARE PEAT POTS

Size 2¼ in., packed 12 to carton	.....\$0.49
Size 3 in., packed 12 to carton	......69

BIRD "Tom Thumb" FLATS

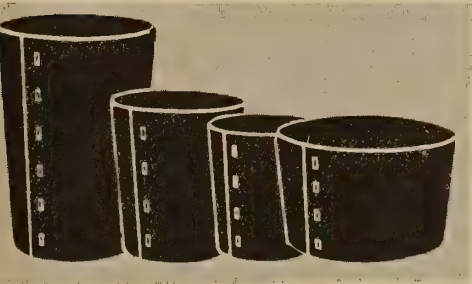
Tom Thumb Flats are made of heavy waterproof fibre resinous material, and we would advise using with the No. 10 band. The most economical way to sell annual plants in dozen lots. Potted plants sell easier at premium prices.

Sold only in units of 250 sets minimum.

Tom Thumb Flats—size No. 1 for 1 doz. 1¾-inch No. 10 Vita-Bands	Per 1000
Tom Thumb Flats—size No. 2 for 1 doz. 2-inch No. 10 Vita-Bands	\$ 44.70
Combination 1M Flats with 12M No. 10 Vita-Bands—size No. 1 (in units of 500 only)	49.60
Combination 1M Flats with 12M No. 10 Vita-Bands—size No. 2 (in units of 500 only)	96.80
	106.70

This item should be ordered as early as possible to insure prompt delivery from the manufacturer.

BIRD'S PERENNIAL POTS



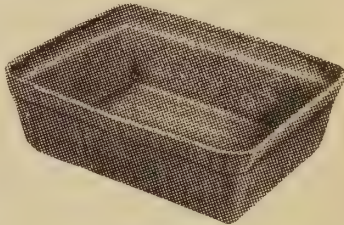
These are designed in size and built of sturdiest nutrient materials to do the job for any grower. Firmly stapled, they handle and ship well and in every way promote increased sales.

Height	5 in.	5½ in.	6½ in.	9½ in.
Top diameter	8 in.	5 in.	6 in.	7 in.
Bottom diameter	7 in.	4 in.	4½ in.	5½ in.
Price per 1000	.....\$65.00	\$47.50	\$58.50	\$69.00
Quantity packed per case	200	200	200	200
Gross weight per case.. 65 lbs.		33 lbs.	44 lbs.	71 lbs.

Sold only in units of 200 at the above quoted prices.

BIRD'S GRO-TAINER

Here is a proven plant tray for growing flower and vegetable plants for the market trade. The demand has been steadily growing for smaller package units, suitable for greenhouse to consumer sales. Try some of these, this season for increased sales.



	Bottom dimensions	Top dimensions	Height	Price per 1000
No. 2	.. 6 in. x 4 in.	7 5/16 in. x 5 5/16 in.	2½ in.	\$44.00
No. 3	.. 7 in. x 5¼ in.	8¾ in. x 6¾ in.	2½ in.	58.00
No. 4	.. 8 in. x 6 in.	9½ in. x 7¾ in.	2½ in.	68.50

Sold only in units of 200 at the above quoted prices.

POTS and PLANT BANDS—Continued**"JACK POT" PEAT POTS**

Pot size	Packed	Weight	Price per 1000
1¾ in. square	2500	30 lbs.	\$ 6.90
2¼ in. round	2000	32 lbs.	7.75
2¼ in. square	2000	36 lbs.	10.50
3 in. round	1000	28 lbs.	13.75
3 in. square	1000	30 lbs.	17.25
4 in. round	500	30 lbs.	28.75
4 in. Azalea	500		28.75

WOOD VENEER PLANT BANDS

Used by the largest growers of vegetable plants, perennial plants, Carnations, Snapdragons and Stocks, for transplanting to the greenhouse or out-of-doors. Packed 1000 to a carton.

	Shipping Weight	Per 1000
1¾x1¾x2½	33 lbs.	\$6.95
2 x2 x2	34 lbs.	6.95
2 x2 x2½	35 lbs.	7.10
2¼x2¼x2½	38 lbs.	7.40
2½x2½x2½	40 lbs.	7.60
2 x2 x3	40 lbs.	7.95
2½x2½x3	45 lbs.	8.25
2¾x3 x2½	50 lbs.	8.50
3 x3 x3	55 lbs.	8.50
3 x3 x4	60 lbs.	8.80
4 x4 x3	60 lbs.	8.90
4 x4 x4	65 lbs. Packed 500 to carton	9.75

These bands are stapled, and are sold in units of 1000 only. Above quoted prices are subject to change without notice, and are f.o.b. Grand Rapids. We will quote mill direct prices when desired. Orders should be placed two to three weeks before delivery date.

WOOD LABELS

For Marking Plants	50	100	1000
⅝x 4 inches, plain	\$0.20	\$0.40	\$3.10
⅝x 4 inches, painted	.25	.45	3.60
⅝x 5 inches, plain	.20	.40	3.35
⅝x 5 inches, painted	.25	.45	3.95
⅝x 6 inches, plain	.25	.45	3.65
⅝x 6 inches, painted	.25	.50	4.45
⅝x 8 inches, plain	.40	.75	5.25
⅝x10 inches, plain	.40	.75	6.50
⅝x12 inches, plain	.60	1.00	7.50
⅝x3½ inches, wired	.25	.45	3.60

The above prices are subject to change without notice and will be postpaid.

PRUNING TOOLS

CLAUS ROSE PICKER. A flower holding shear made of the finest cutlery steel which cuts and holds the flower stem in one easy snip. Protects hands from stem thorns. \$2.25 each.

SEYMOUR SMITH No. 149. A light weight, powerful pruner, anvil cutting action. 20-inch handle. \$5.95 each.

No. 28 CARTWRIGHT. Drop forged steel cutting shear, 21-inch white Hickory handle. Very durable. \$7.00 each.

CARTWRIGHT MIDGET. Same as above, except with 14-inch handles. \$5.25 each.

WOODMAN'S GRAFTING COMPOUND. A necessary sealer after pruning, or for damaged bark or limbs. Is also used in graft work. 1 qt., 97c; 1 gal., \$2.49.

ANTROL TREE WOUND DRESSING. A convenient aerosol pressure bomb applicator sprays the dressing compound over bark bruises and pruning cuts. A perfect seal from weather deterioration. 5-oz. bomb, 89c.

TRI-PLY TREE WRAP. Protects against sun-scald, borers, rodents, frosts and abrasions. 4 inches wide. 35-ft. roll, 69c; 125-ft. roll, \$1.25.

No. 16 ATKINS POLE PRUNING SAW. With cast iron shank but without pole. 16 inches in length. \$4.30 each.

No. 20 ATKINS PRUNING SAW. 14-inch blade. \$3.40 each.

NOTICE. All prices quoted on this page are subject to change without notice, and are f.o.b. Grand Rapids, except wood labels which are postpaid. On other items refer to postal rates on page 3 for mailing cost.

THIN LINE PEAT POTS

Pot size	Packed	Weight	Price per 1000
2¼ in. round	2500	30 lbs.	\$ 7.00
2¼ in. square	2500	34 lbs.	7.50
3 in. round	1250	32 lbs.	13.00
3 in. square	1000	37 lbs.	14.50

Above prices quoted are f.o.b. Grand Rapids, with freight allowed on 150 lbs. or more in the state of Michigan (lower peninsula). Prices quoted on large quantities on request.

VENEER TRAYS

Size: 11½ inches long, 4¼ inches wide, and 2¼ inches deep. Four will go in an ordinary flat. Come packed K. D. 50 to a bundle. Shipping weight about 10 lbs. per bundle. Price: \$3.50 per hundred. Not prepaid. See page 3 for the postage.

FERTO-POTS

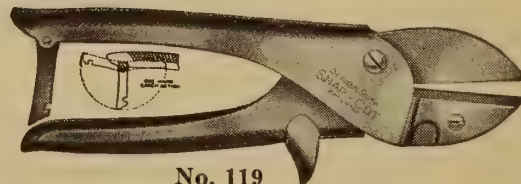
For earlier, better crops and bigger profits.

FERTO-POTS produce earlier crops and more abundant yields, and are extensively used by the most successful gardeners.

FERTO-POTS are constructed of manure and fertilizer in the correct proportions for best plant growth and for holding the moisture at roots of the plants. The plants are not removed from the pots when they are set out. Simply set pot and all in the ground and the roots will grow right through the pot which slowly breaks down, furnishing valuable plant food. Roots are not disturbed and plants not checked.



Carton of 100 No. 3 (3 inch), \$4.25.
Carton of 250 No. 3 (3 inch), \$7.50, not postpaid.



No. 119

8-inch Original "Snap Cut" finished in chrome. Price: \$3.25. No. 118 same as above only 6 inches, \$2.19.



MIRACLE GRASS CLIPPER. Basic design of this shear insures perfect operation under all conditions. Blades do not stick or spread. Super grip, \$2.95; No. 2, \$2.75.

MIRACLE. 9-inch blade. Recommended for heavy branch trimming. \$7.75 each.

K-100. 9-inch blades. Strongly reinforced handle. \$4.25 each.

MIRACLE HEDGE SHEARS. 9-inch. Dynamic tempered blades. \$4.60 each.

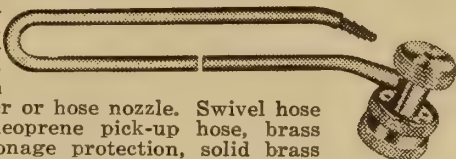
No. 1312 POLE PRUNER. 12 feet in length—two 6-foot sections. Will trim up to ½-inch cuts. \$7.95 each. Saw blade attachment for a 1312 pole pruner, \$1.50.



MISCELLANEOUS SUPPLIES

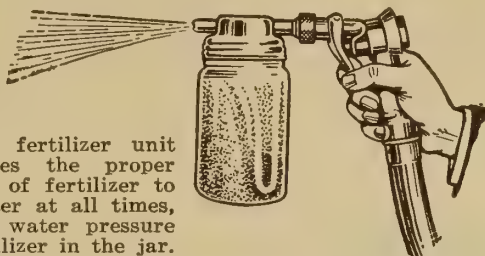
No. 246 RediMix Garden Feeder

Attaches between faucet and garden hose to siphon chemical out of bucket onto a lawn through any type of sprinkler or hose nozzle. Swivel hose coupling, 36-inch neoprene pick-up hose, brass strainer, back siphonage protection, solid brass working parts. Price, \$2.29.



Tricon Nozzle and Fertilizer Unit

Model No. 500 fertilizer unit automatically gives the proper ratio of 1/2 ounce of fertilizer to one gallon of water at all times, regardless of the water pressure or amount of fertilizer in the jar. The all-purpose nozzle has a trigger control giving complete control of distribution in hand of the operator. Reversible cap quickly gives you any kind of stream needed. An efficient automatic unit which distributes soluble fertilizers evenly and easily. Price, \$6.25.



No. 243 RediMix 2 in 1

Attaches to garden hose and with the "dial-a-spray" control valve, controls the flow of water from the garden hose to spray insecticides, fungicides, weed killers and soluble plant food. Price, \$4.95.

No. 484 Hosemaster

Fertilizer-Insecticide sprayer offers any type of spray desired in perfect automatic mixture of water and liquid chemicals according to adjustment of the new jet metering stem. Pistol grip water control can be turned on and off at the point of use. Sprays up to 100 gallons of solution without refilling. Light weight, streamlined, all brass non-corrosive mechanism. Unbreakable pint size polyethylene liquid container. Price, \$5.95, not postpaid.

Aluminum Grass Stop

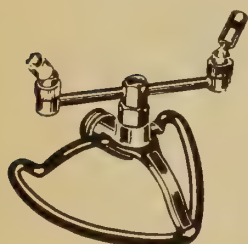
Used around trees, keeps gardens and walks clear of spreading grass. Eliminates trimming, rust-proof, lasts indefinitely. Easy to install. 40-foot coils in 4-inch and 6-inch widths. Prices quoted as requested.

Aluminum Trellis

Complete with fasteners. 24 inches wide by 10 feet high. Adds to beauty of climbing Roses and other climbing vines. Prices quoted as requested.

Aluminum Garden Wire

In 25-foot rolls. Useful in protection of garden plants and flowers; also used for special trellis work, for climbers. Prices will be quoted on request.



H-334 Two Arm Sprinkler

Adjustable for even coverage of large or small lawn areas of any shape. Self locking nozzles adjust to any angle and to a fine mist or heavy rain. Price, \$5.95.

Seymour Seedkaster

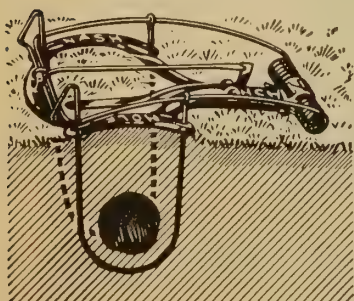
The body of this improved Seedkaster is constructed of one piece deep drawn steel or weld.

Gears are in dust-proof chamber, permanent lubrication. Entire unit designed for perfect seed or fertilizer broadcasting. Price, \$8.75.

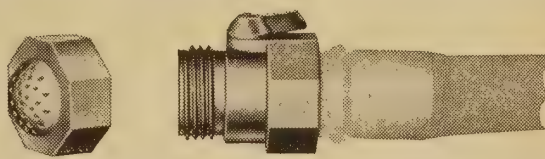


Nash Choker Loop Mole Trap

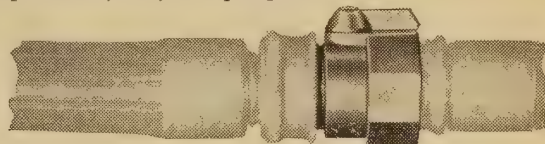
The only trap that always catches the mole in all kinds of ground. Price, \$3.95.



No. 98 "Ball Flow" Shut-Off Valve



This new "ball flow" shut-off valve allows full control at union connections on extended lengths of hose or pipe. Will save many times its cost in time and convenience. No leaks or drips. Price, 98c, not postpaid.



H-265 Fan Spray

This accessory was designed especially for watering plant roots without wetting the foliage or washing out top soil from roots. Made of wrought brass in a bright dipped finish. Mailing weight 4 ozs. Price, 75c.



H-226 Round Flower Sprinkler

This sprinkler with its large diameter (4 in.) head delivers a volume of water in a fine spray for distances up to 13 ft. Made of wrought brass, satin finished and lacquered. Mailing weight 6 ozs. Price, \$1.00.



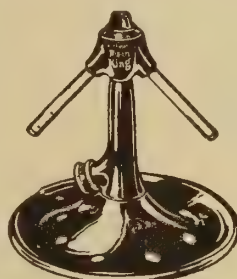
No. 500 Gilmour Hosemaster

This new all-purpose nozzle has a new type threaded end for attaching to car and window wash brushes, garden sprinklers, sprayers, etc. A tooled all solid brass valve arrangement completes a light weight, non-corrosive nozzle for many special uses in gardens and greenhouse. Excellent water breaker for mist fog spray on seedlings and tender plants. A positive lock keeps the nozzle adjusted. Price, \$1.95, not postpaid.



No. 400 Dramm Aluminum Water Breaker

One of the best water breaker attachments for plant and seedling sprinkling. All aluminum, light weight, 3/4-inch attaches to standard threaded garden hose. Price, \$1.50, not postpaid.



Rain King Sprinkler Model "K"

Precision adjustment can be set to sprinkling size circle from 5 to 50 ft. Prices quoted on request.



The Jiffy Planting Tool

The Jiffy Planter, which one can use in a standing position, is a sturdy, practical addition to one's garden tools. Built to give a lifetime of service.

May be used in transplanting plants as well as bulb planting. Operation is simple and efficient. Price, \$3.25 each.



Hole-in-One Planting Tool

An efficiently designed planting tool for bulb planting in small gardens, large estates, or commercial nurseries. In one easy operation, holes are shaped up for insertion of bulbs. Mailing weight 1 lb. Price, \$1.00.



Germāco Hotkaps

or Plant Protectors

20 garden size package complete with setter\$1.10
100 package complete 4.80
250 package complete\$ 7.95
1000 carton, per 1000 23.80
5000 lots, per 1000 22.80

Shipped prepaid in Michigan. We do not split packages of Hotkaps.

KING SIZE HOTKAPS

9½ in. high by 11 in. at the base. 500 to the case.
Shipping weight 26 lbs., \$30.45 per 1000.

SETTERS

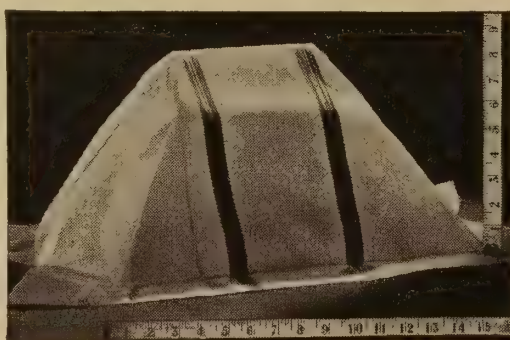
Fibreboard setter for Hotkaps. 20c each, postpaid.
Per case of 24, \$4.80, not postpaid.

Steel setter for Hotkaps. \$2.15 each, not postpaid. Wt., 4 lbs.

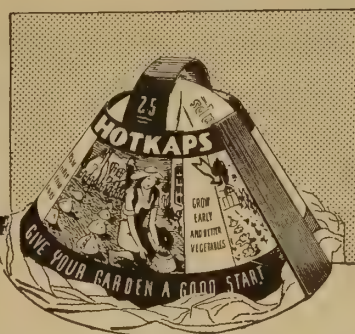
Steel setter for King Size Hotkaps. \$3.75, not postpaid. Wt., 6 lbs.

Steel setter for Hot Tents. \$3.25 each, not postpaid. Wt., 4 lbs.

Steel setter for Super Hot Tents. \$3.75 each, not postpaid. Mailing weight 6 lbs.



Hot Tents



HOT TENTS

These are large, strong, reinforced with wire to give the user a larger area to cover individual plants. Size 14x11 in. at the base, 8½ in. high. Weight 35 lbs. to a carton of 500.
500 to a carton\$34.15 per 1000

SUPER HOT TENTS

Extra strong, reinforced with wire, large in size, 18x14 in. at base, 12 in. high. Weight 60 lbs. to a carton.
500 to a carton\$51.25 per 1000

Hot Tents and Super Hot Tents cannot be sent by mail on account of size, and are not prepaid. Available only in cartons of 500.



'TWIST-EMS'

Home garden package for tying up anything you grow. New package of 50.
Package of 100 Twist-ems, 8 in. ...\$0.29
Package of 100 Twist-ems, 16 in.57

As illustrated above.

For commercial growers, used in tying Carrots, Beets, Onions, Celery and other produce for market. "A twist of the bunch does the trick."

Postpaid up to 10,000

Bundle of	Per 1000	Per 2500	Per 5000	Per 10,000
7 in.				
\$0.40	\$1.55	\$1.50	\$1.45	\$1.40
8 in.				
.50	1.75	1.70	1.65	1.55
12 in.				
.75	2.70	2.65	2.60	2.50
16 in.				
1.00	3.45	3.40	3.35	3.25

Not Prepaid—Per 25,000

7 in.	\$1.30 per 1000
8 in.	1.45 per 1000
12 in.	2.23 per 1000
16 in.	2.90 per 1000



CUT OFF
AS NEEDED



250 continuous feet on plastic reel. \$1.00, postpaid.

TRAIN-ETTS



Ideal support for SWEET PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES. Hung in 5 minutes. Doesn't rot like string nor burn tendrils like wire.

No. 2 size, 60x96 inches.

95c

GET BIGGER, BETTER PLANTS

...In less time
...With less work

HELPS YOU ALL THROUGH THE GROWING SEASON!

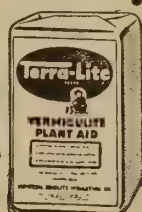
TERRA-LITE aids development of Seedlings, Root-cuttings and Plants at all stages of growth. It helps more seeds germinate... lightens heavy soil... gives body to light soil... unequalled as a mulch... keeps stored bulbs firm and plump... aids denser growth in new lawns. Absorbs moisture and releases it when plant needs it.

Smart growers get their plants off to a fast, sturdy start with TERRA-LITE. What's more, they keep those same plants rolling right along through the growing season, with this same fabulous plant aid. When transplanting or putting in new garden stock they mix a liberal amount of TERRA-LITE with the earth around the plant for ideal soil and moisture growing conditions.

A package size for every requirement. Information on package sizes and prices on request.



*Reg. T. M.
of Zonolite Co.



SPRAYERS

NOTICE. All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.

HUDSON SIMPLEX® SPRAYERS

Easier to Seal, Use—Leakproof

HUDSON SAF-T-LOK SPRAYER

NEW! Easy to Seal, Safe to Open



Capacities, 1¾ gals. to 3½ gals. Prices range from \$10.70 to \$11.40.

New Saf-T-Lok top design assures easy sealing, safe opening, easy filling. Rotatable spray valve, powerful pump. Galvanized steel tank with electrically-welded seams.



Prices range from \$19.95 to \$37.50.

Easy to use, most dependable compression sprayers. Cover seals from inside. Powerful pump, 7 strokes do work of 10. 4- and 3-gallon sizes. Galvanized or stainless steel.

HUDSON FAVORITE SPRAYER

Finest, Lightweight Home Sprayer



Prices range from \$11.95 to \$24.50.

Finest 2-gal. home sprayer made. 5-spray nozzle—from extra-fine mist to long-distance spray. 5-ft. red plastic hose. New Saf-T-Lok for easy sealing, safer opening.

In addition to the above improved models of Hudson sprayers, we offer over fifty models of both sprayers and dusters of the Hudson line. By means of their new electric selector board the exact model can be determined for any specific need. We will be glad to quote prices and make suggestions.



No. G-20

Tank capacity about 3 gals. Constructed of heavy galvanized steel. Pump 12-inch seamless brass tubing with positive acting check valve. 22¼-inch brass extension from which nozzle can be detached. Equipped with nozzle discs to produce 4 patterns of spray. 20-inch durable spray hose, and web carrying strap. Heavy forged brass, leak-proof release valve. Weight about 9 lbs. Price, \$8.78 each.



No. 285 4-Jet Super Mist

14-oz. size. Heavy tin plate lithographed in 2 colors. Mailing weight, packed, about 2 lbs. Price, 77c.

No. 290 4-Jet Super Mist

27-oz. size. Large opening for filling. Heavy tin plate lithographed in 2 colors. Mailing weight, packed, about 2 lbs. Price, 89c.



BCC-35 Continuous Sprayer

Streamlined, solid copper tank; seamless brass pump 14 in. by 1½ in. Complete sprayer, highly polished and lacquered. Very attractive. Quart size \$5.90.



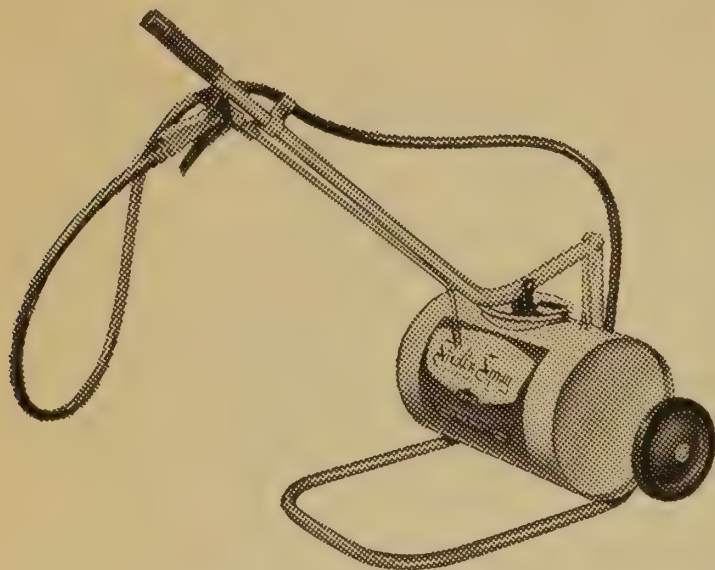
230 Flash

27-oz. heavy tin container. No drip feature. Mailing weight about 2 lbs. Price, 64c.

NOTICE. All prices quoted on this page are subject to change without notice, and are f.o.b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.

SPRAYERS (Continued)

NOTICE. All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.



No. 1305 New Stroll'n Sprayer

Once you have tried the easy pump Stroll'n sprayer, you'll never be satisfied with any other. This new sprayer is a compressed air, galvanized tank, 3 gal. capacity, mounted in special wheel carriage, with convenient handle for pulling along ground area, and discharging spray through trigger controlled nozzle as needed. May be seen on display in our store. Price, \$18.29.

No. 1300

Same as No. 1305, except it has different pump assembly. Price, \$14.46.

60-G Universal Tank Sprayer

Premium galvanized steel electric seam welded. Capacity 3½ gallons. Shipping weight 11¼ lbs. Price, \$14.54.



No. 35 Funnel-Top

Compressed air sprayer. Capacity 3½ gallons. Galvanized tank. Price, \$11.18.



No. 15 Funnel-Top

Compressed air sprayer. Capacity 1½ gallons. Price, \$9.71.

No. 102 Double Action Trombone

2 qt. capacity. Efficient and easy to use. Price, \$5.55.



No. 353 "Easy Carry"

Compressed air sprayer. Capacity 3½ gallons. New type recoil nylon hose. Price \$11.73.

No. 203

Same as No. 353 in 2 gallon capacity. Price \$10.11.



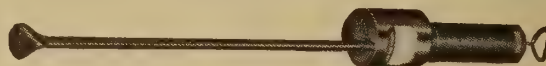
No. 255 Gem Sprayer

Heavy tin with 5-oz. ribbed green glass jar, 1½ in. opening. Mailing weight about 2 lbs. packed. Price, 40c.

235 Flyer Sprayer

27-oz. heavy tin plate. No drip feature, leak proof. Mailing weight about 2 lbs. packed. Price, 64c.

No. D-17 Super Cloud Hand Duster



Quart size. Has two 12-inch extensions with upshoot nozzles. Pump 8¾ x 2¾ inches. Dust chamber 4½ x 4 inches. Weight about 3 lbs. Price, \$3.56 each.

No. D-15 Cloud Hand Duster



A very popular pint size. Equipped with one 12-inch extension and upshoot nozzle. Dust chamber 4¾ x 3 inches. Pump 7 x 2¾ inches. Weight about 2 lbs. Price, \$2.48 each.

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Have a Trim Lawn Without Trimming with *Nichols* ALUMINUM GRASS STOP

You don't have to hire a caretaker! Just by inserting NICHOLS GRASS STOP around trees and flower beds . . . along walks and driveways . . . you keep grass from spreading and you're able to trim those edges with your mower instead of by hand! For the trimmest-looking lawn in town with the least amount of work, edge with GRASS STOP. In 4 widths . . . 24 and 40 ft. lengths.



NICHOLS ALUMINUM GRASS-STOP KEEPS
AREAS AROUND TREES AND BUSHES
NEAT AND TRIM



Enjoy 8-ft. Vertical Gardens Grown on 1 ft. of Ground on *Nichols* ALUMINUM FLOWER FABRIC

Add the beauty to your home of columns thick with red Roses, purple Clematis, deep green Ivy . . . grown with practically no tending . . . on NICHOLS FLOWER FABRIC. Vertical gardens are a dazzling departure from common ground-level gardens, raising floral beauty to eye level! Order FLOWER FABRIC in 24-inch and 36-inch widths. They are 8 ft. in length.

Control Crab Grass Infestation with CHIP-CAL

Chip-cal in granular form applied in the fall at the rate of 8 to 12 pounds per 1000 sq. ft., kills seedling plants as the seeds germinate. Effect of the treatment lasts for more than one season and up to several years. Also controls chickweed.

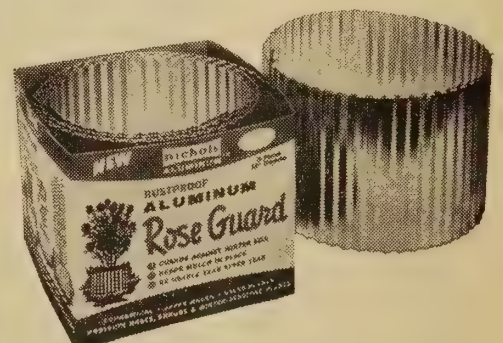
CHIP-CAL GRANULAR is conveniently packaged:

- 12-pound bag—treats about 1000 square feet
- 24-pound bag—treats about 2000 square feet
- 48-pound bag—treats about 4000 square feet

ALUMINUM ROSE GUARDS



The perfect protection for prize, choice Rose bushes against winter kill. Place around all winter sensitive plants in the fall and fill with mulch. The guard is flexible, light weight and forms a circular protection by forming a band 12 inches in diameter by 8 inches high and easily and securely fastened at the connecting ends with self-locking slots. Aluminum guards do not rust and afford protection for many consecutive seasons. Packed in cartons of 5 guard units to each carton.





New Rustproof Aluminum GRASS STOP FOR THE NEATEST YARD IN TOWN!

- Rustproof—lasts indefinitely
- Stops grass spreading into gardens, borders, etc.
- Reduces tedious trimming
- Keeps lawn edges neat without trimming
- No interference with mowing

Use Terra-Lite* Vermiculite

Here is really the ideal growing medium! Acclaimed by professionals as the new miracle gardening aid, Terra-Lite vermiculite is a magic mineral containing billions of tiny cells that trap and store air and water, releasing them as needed to bring about massive root systems.



With Terra-Lite to help you in your gardening, the pleasure is all yours! See how many ways Terra-Lite can help you, "all thru the year."

Starting Seeds. Sure fire means of getting maximum germination. Many fine hair roots, yet seedlings in Terra-Lite lift out with ease.

Transplanting — trees, shrubs, bulbs — mixing Terra-Lite with the soil loosens and aerates the soil. Plants develop large vigorous root systems.



Mulching. Winter or summer, Terra-Lite stops ground heaving, protects shrubs, bushes and other plants.

Rooting Cuttings. Big virile root masses in much less time with Terra-Lite! Cuttings need much less watering, can be transplanted without loss from shock.



Lightening Soil. Terra-Lite breaks up and aerates heavy soils, gives roots chance to develop. Mixed in sandy soil, Terra-Lite holds water, saves endless sprinkling.

Storing Bulbs. Stop storage rot with this perfect storing medium. Keeps stored bulbs and root crops firm and plump.



New Lawns. Greener, healthier Terra-Lite lawns make friends, for Terra-Lite's ability to store and control air and moisture means no scorching, less watering.



Killer Kane

Kills Weeds With A Squirt
No Stopping

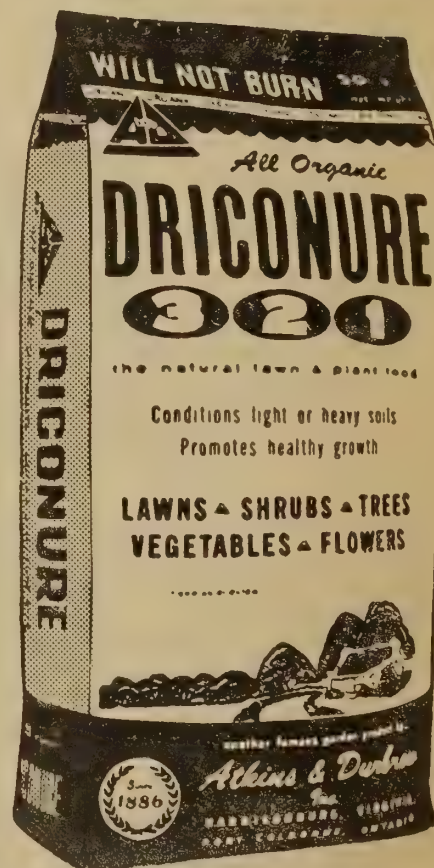
No Digging

Bulls eye control of weed spray SAVES CLOVER, kills weeds as fast as you walk. Just place point on weed, press lightly, release and measured dose of (2-4-D or other weed killer) drenches the weed. Can be used close to flowers, shrubs, without danger. One fill treats 1000 weeds. Made of durable plastic and brass. Lasts for years. Price \$1.79.

Clever Whitehall Markers

for EVERY HOME

Our WHITEHALL selection includes unusual designs for every home, lodge or summer cottage. Signs that attach to tree, post or side of house—lawn signs and wall type markers for any flat surface. Signs are cast aluminum with leadcoated nameplate and hand-wrought iron bar. Swedish iron finish highlights artistic ornaments. Lettering 30c extra per character or numeral. We have many new Whitehall house signs in our display, including both large and small sizes. Prices from \$7.95.



- **SCIENTIFICALLY BLENDED** dehydrated poultry and farm manures, peat moss and other organic soil conditioners.
 - **ECONOMICAL — CONTAINS NO FILLER.** Every ounce 100% effective... nothing is wasted. Your best garden investment.
 - **SAFE AND EASY TO USE.** Applied with any standard spreader. Directions on every bag. A size to suit everyone.
- Like Professional Landscapers and home owners everywhere you will be proud to say "I use DRICONURE." You can't buy a better fertilizer

70



"Cardinal" \$9.95.
In color \$14.50.

YOUR NAME IN A JIFFY
WITH REFLECTING LETTERS

Characters are 150 times brighter than paint—and reflect at night when light shines on them. 30c each.



GRAND RAPIDS GROWERS, INC.

401-433 Ionia Ave., S. W.
Grand Rapids 2, Michigan

Established in 1919

The World's Finest

F₁ HYBRID
PETUNIAS

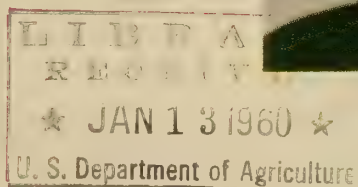
BY
PAN AMERICAN SEEDS, INC.

GLORIOUS MIXTURE



CAPRICE

Bright Rose



*Only the Best
in the Famous
All Double Petunias*



SONATA	Pure White
NEW COLOR	Salmon & White Variegated
RHAPSODY	Burgundy Wine-Purple
NOCTURNE	Midnight Violet-Purple
MINUET	Orchid-Lavender
ALLEGRO	Bright Salmon
PRESTO	Rose & White

The finest All-Double Mixture ever offered. Seven colors and intermediate shades. Uniform habit. Vigorous enough for mass garden effect. Dwarf enough for pots. Transplant **ALL**.

Prices of Pan American "Double" Petunias are listed in the flower seed section of our seed annual.

GRAND RAPIDS GROWERS, INC. *Presents . . .*



SABRE DANCE

•
Bright
Crimson & White

•
Star Pattern

•
NEW!
STRIKING!

MAYTIME

•
A. A. Winner
1958

•
Clear, Light
Salmon-Pink



BLUE LACE

•
Ruffled and Fringed

•
Delicate Dark Veins



TOREADOR

•
Bright
Velvety-Deep
Crimson-Red

CRUSADER

•
Striped
Rose Pink
on White.
•
Very Popular.



TEN BEST-SELLING GRANDIFLORA PETUNIAS

Bred and Grown by Pan-American Seeds, Inc.



LA PALOMA

- Pure White
Yellow Throat.

BALLERINA

- First A.A.
Winner
- Soft, Glowing
Salmon.
- A perennial
Best Seller.



TOP TEN GRANDIFLORAS

The finest selection of grandiflora Petunias available. Dwarf, compact, all foliage clean dark green. Outstanding vigor. Unsurpassable for beautifying beds, borders, boxes, pots and combinations.

Prices of Pan American "Top Ten" Grandiflora Petunias are listed in the flower seed section of our seed annual.



PRIMA DONNA

- Bright Rose Pink

- The only A.A. Winner
in this color class.



TANGO

- Lovely, warm
Scarlet-Salmon.
- Better than ever.

BLUE MAGIC

- Medium
Deep Violet
Blue.
- Rich as Velvet.



GROW THESE MULTIFLORA F₁ HYBRID PETUNIAS

Bred and Developed by
PAN AMERICAN SEEDS, INC.

Ask for the complete selection of the World's finest F₁ Hybrid Multifloras. Other outstanding F₁ Hybrids Multiflora by Pan-American, Seeds, Inc.

Aztec—Comet—Inca
Linda—Mars—Mohawk
Neptune—Paleface
Satellite—Sioux—Venus
Pow Wow Mixed
(10 Color Formula Mix)



COMANCHE All-America Winner
Scarlet-Red
Most Popular of all Petunias

The leaders, the new, the proven. Sturdy, compact, globe shaped plants, free flowering under all conditions. Always shapely and neat, definitely weather resistant.

Prices of Pan American F₁ Hybrid "Multiflora" Petunias are listed in the flower seed section of our seed annual.



SUGAR PLUM - NEW!
DIFFERENT!



MERCURY - The blue you have been waiting for.



ASTER, POWDERPUFF

POWDERPUFFS are classified as the Bouquet type of wilt resistant Asters. Plants are 24 inches tall, upright in growth habit and the quilled blooms are produced in clusters on top of long, sturdy stems. This variety of Aster is the choice of many cut flower growers. The well balanced color range includes coppery rose, crimson, rose, rose bouquet, rose-pink bouquet, scarlet bouquet and white bouquet. See page 32.



Dwarf French *Petite* MARIGOLDS

1958 All-America Winners

- *Petite Harmony*
- *Petite Orange*
- *Petite Gold*
- *Petite Yellow*

These new Petite Marigolds are sensational in their outstanding color, are dwarf in habit of growth and are in popular acclaim for a true dwarf double French Marigold. See complete description and prices on page 41.

COLORFUL *Annuals*

for Thrifty
Landscape Beauty

COLEUS, RAINBOW MIXED "Greenhouse Grown"

We offer the best strains of this colorful foliage plant obtainable. You will find its medium to large leaves richly colored in many attractive shades of copper-red, crimson-red, dark green, light green, and many bi-colors. The plant is very vigorous, uniform and compact. See page 33 for full description and prices.



Choice, New *Specials*



PETUNIA, RED SATIN

This "All-America" Winner of 1957 produces brilliant scarlet-red blooms of large size, which hold their color even under the hot sun. Another outstanding feature is the plant itself, which is dwarf, rounded and compact in growth habit. Further, these plants maintain their compactness to the very end of the season without splitting apart in the center or requiring any pruning. See further listing on page 42.



MARIGOLD, SPUN GOLD

Bronze Medal, A.A.S. 1960. Marigold, SPUN GOLD is an early dwarf Chrysanthemum-flowered type, averaging 12 inches tall, erect bush growth with a multitude of large, double flowers 3 inches across with incurved petals, bright golden yellow color. Foliage medium green; extremely early, uniform height and growth habit; blooms profusely. Ideal for mass bedding, borders, window boxes and pot work. This color photo shows the new Spun Gold Marigold with a border of dwarf blue Tetra Ageratum. Listed and priced on page 40.

OUTSTANDING SNAPDRAGON, ROCKET (NEW)



1960 A. A. S. Winner. Here is the first F₁ Hybrid garden Snapdragon. Far superior to other garden types. Bred especially for heat resistance and summer blooms. Rocket is colossal in type and produces long, closely set spikes on strong stems in unsurpassed colors of red, golden, rose, white, bronze and orchid. Plant is 30 to 36 inches tall, base branching, upright, uniform and vigorous. Come again when cut. See page 47 for further description and prices.

**GRAND RAPIDS
GROWERS Inc.**

401-433 Ionia Ave., S. W.
GRAND RAPIDS,
MICHIGAN